WELLESLEY COLLEGE BULLETIN

CALENDAR NUMBER
1929-1930

WELLESLEY, MASSACHUSETTS
NOVEMBER, 1929

WELLESLEY COLLEGE BULLETIN

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Volume 19 Number 2

CORRESPONDENCE

All inquiries regarding admission should be addressed to the Secretary to the Board of Admission.

As Director of the Personnel Bureau, Associate Professor Wood is prepared to furnish information in regard to the qualifications and experience of former members of the College who have registered with the Bureau as candidates for teaching or other vocations. All former students of the College may, by registering, have the aid of the Personnel Bureau in securing positions.

Inquiries for general information should be addressed to the Secretary to the President.

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1929

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CALENDAR

Academic Year 1929-1930

Examinations . . . . . September 16-20, 1929

Academic Year begins . . . . . Monday, September 23

Holiday, Thanksgiving Day . . . . . November 28

Recess from 12:30 p.m. Thursday, December 19, 1929, until 12:30 p.m. Wednesday, January 8, 1930.

Registration closes for all students at 12:30 p.m. Wednesday, January 8

Examinations . . . . . January 28 to February 7

Second semester begins . . . . . Monday, February 10

Holiday, Washington's Birthday . . . . . February 22

Recess from 12:30 p.m. Friday, March 28, until 12:30 p.m. Tuesday, April 8.

Registration closes for all students at 12:30 p.m. . Tuesday, April 8

General Examination for Seniors . . . . . Friday, May 2

Holiday, Memorial Day . . . . . May 30

Holiday, Tree Day . . . . . May 31

*Examinations . . . . . June 2 to 11

Commencement . . . . . Monday, June 16

Academic Year 1930-1931

Examinations . . . . . September 15-19, 1930

Registration closes for new students at 10 p.m. Monday, September 15

Registration closes for all other students at 10 p.m. Friday, September 19

Halls of Residence open for new students at 9 a.m. Monday, September 15

Halls of Residence open for all other students at 2 p.m. Thursday, September 18

Academic Year begins . . . . . Monday, September 22

Holiday, Thanksgiving Day . . . . . November 27

Recess from 12:30 p.m. Thursday, December 18, 1930, until 12:30 p.m. Wednesday, January 7, 1931.

Registration closes for all students at 12:30 p.m. Wednesday, January 7

Examinations . . . . . January 27 to February 6

Second semester begins . . . . . Monday, February 9

Holiday, Washington's Birthday . . Monday, February 23

Recess from 12:30 p.m. Friday, March 27, to 12:30 p.m. Tuesday, April 7.

Registration closes for all students at 12:30 p.m. . Tuesday, April 7

Holiday, Memorial Day and Tree Day . . . . May 30

Examinations . . . . . June 1 to 10

Commencement . . . . . Monday, June 15

*Some make up examinations may be scheduled June 12.

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Treasurer of Wellesley College

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MARGARET POLLOCK SHERWOOD, PH.D., L.H.D., *Professor of English Literature.*

[1]The officers of instruction are arranged in three groups; the first group includes professors, associate professors and assistant professors, the second instructors, and the third other officers.
[2]Absent on Sabbatical leave.
[5]Absent on leave for the second semester.

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MARIAN ELIZABETH HUBBARD[2], B.S., *Professor of Zoology.*
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MABEL ELISABETH HODDER[2], PH.D., *Professor of History.*
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MARY JEAN LANIER, PH.D., *Professor of Geology and Geography.*
OLIVE DUTCHER, M.A., B.D., *Professor of Biblical History.*

[2]Absent on Sabbatical leave.
[5]Absent on leave for the second semester.
[9]Absent on Sabbatical leave for the second semester.

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MYRTILLA AVERY, B.L.S., PH.D., *Professor of Art.*
HOWARD EDWARD PULLING, PH.D., *Professor of Botany.*
ANNIE KIMBALL TUELL, PH.D., *Associate Professor of English Literature.*
ANNA BERTHA MILLER, PH.D., *Associate Professor of Latin.*
LENNIE PHOEBE COPELAND, PH.D., *Associate Professor of Mathematics.*
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[2]Absent on Sabbatical leave.
[3]Absent on leave.

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HOWARD HINNERS[3], B.A., *Associate Professor of Music, Organist and Choir Director.*

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ODA IRMTRUD FRIEDLIND LOHMEYER[3], PH.D., *Assistant Professor of German.*

RUTH ELLIOTT, PH.D., *Professor of Hygiene and Physical Education and Director of the Department.*

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VERZ ROGERS GODDARD, PH.D., *Assistant Professor of Physiology.*

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JOSEPHINE LANGWORTHY RATHBONE, M.A., *Assistant Professor of Hygiene and Physical Education.*

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BLANCHE FRANCIS BROCKLEBANK, *Instructor in Pianoforte.*

MARGARET JOHNSON, *Instructor in Hygiene and Physical Education.*

HELEN STILLWELL THOMAS, M.A., *Instructor in Botany.*

[3]Absent on leave.

FANNY GARRISON, B.A., *Instructor in Hygiene and Physical Education.*

MARY FISHER DEKRUIF, M.D., *Instructor in Hygiene and Physical Education and Health Officer.*

JEAN EVELYN WILDER, B.A., *Instructor in Pianoforte.*

HELEN BROWN AVERY, M.A., *Instructor in Zoology.*

GERTRUDE JOYCE CRAN, *Instructor in Hygiene and Physical Education.*

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OLGA STEINER, *Instructor in German.*
MARIELIES MAUK, *Instructor in German.*
FERNANDE JEANNE COUFOULENS, C.E.S., *Instructor in French.*
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ANDREW ROY MACAUSLAND, M.D., *Lecturer on Orthopedics.*
EDGAR M. NEPTUNE, M.D., *Lecturer on Orthopedics.*
HILBERT F. DAY, M.D., *Lecturer on Pelvic Hygiene.*
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GLENN WILLIS LAWRENCE, D.M.D., *Lecturer on Oral Hygiene.*
WILLIAM EMERSON PREBLE, B.A., M.D., *Lecturer on Internal Medicine.*
ABRAHAM MEYERSON, M.D., *Lecturer on Mental Hygiene.*
CALVIN B. FAUNCE, JR., M.D., *Lecturer on Oto-Laryngology.*
HARVEY PARKER TOWLE, M.D., *Lecturer on the Hygiene of the Skin.*

[6]Appointed for the first semester only.
[7]Appointed for the second semester only.

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[2]Absent on Sabbatical leave.

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WELLESLEY COLLEGE
Wellesley, Massachusetts

FOUNDATION AND PURPOSE

WELLESLEY COLLEGE was established for the purpose of furnishing to young women who desire to obtain a liberal education such advantages and facilities as are enjoyed in institutions of the highest grade. The first building of the College, erected and equipped under the supervision and through the personal means of the founder, was opened to students in 1875, with the announced purpose "of giving to young women opportunities for education equivalent to those usually provided in colleges for young men." Throughout his work the founder aimed to put into visible form his ideal of the higher education for women, "the supreme development and unfolding of every power and faculty."

By the charter, granted by the Commonwealth of Massachusetts, "the corporation of Wellesley College is authorized to grant such honorary testimonials, and confer such honors, degrees, and diplomas, as are granted or conferred by any University, College, or Seminary of learning in this Commonwealth; and the diplomas so granted shall entitle the possessors to the immunities and privileges allowed by usage or statute to the possessors of like diplomas from any University, College, or Seminary of learning in this Commonwealth."

In accordance with the spirit of the founder, the College is undenominational, but distinctively Christian in its influence, discipline, and instruction.

The members of the College meet daily for morning prayers in the beautiful chapel presented in 1899 by Miss Elizabeth G. Houghton and Mr. Clement S. Houghton as a memorial to their father, Mr. William S. Houghton, a trustee of the College from 1880 to his death in 1894. Services on Sunday are conducted in this chapel by preachers of different denominations. At all these services and at vespers on Sunday, the singing is led by a trained choir of students under the direction of the department of music.

The Wellesley College Christian Association, organized to foster religious life, and interest in social reforms and in home and foreign service holds meetings for prayer and religious instruction.

The department of Biblical History affords the systematic study of the Bible required of all students.

ADMISSION

In order to qualify for admission to Wellesley College an applicant must present satisfactory evidence of her ability and purpose to profit by the opportunities offered by the College. This evidence must include satisfactory records and testimonials concerning health, character, and scholarship. A candidate for admission must be at least sixteen years of age.

Applications for admission should be made upon forms which will be furnished on request. An application fee of $10 is required of all applicants and no registration is recorded until this fee is received. The fee is credited on the first semester's bill when a candidate enters college. In case the registration is cancelled or the candidate fails to qualify for admission, the fee is not refunded but it may be transferred to apply to a candidate's admission in a later year.

The date of application is used as basis in assigning rooms to Freshmen in the college dormitories. Candidates will be selected, however, not on the basis of priority of registration but in the order of the excellence of the credentials submitted to the Board of Admission. The board considers in choosing candidates, the evidence of ability and growth in power and special interest in certain fields of work, indicated by the complete record and the testimonials from the secondary school. This information is supplemented by entrance examinations in at least four subjects and the Scholastic Aptitude Test of the College Entrance Examination Board. Blank forms for all required records will be sent during the candidate's final year of preparation for college.

Admission to the Freshman Class

For admission to the freshman class a candidate must present fifteen units* of secondary school studies chosen according to the following plan:

Group I. Prescribed, 10 units:

English	3
Mathematics	3
Algebra 2	
Plane Geometry 1	
Latin	3
History	1

Group II. Restricted Electives, 2 units:

Foreign language	2
or	
Science	2
or	
Science 1 and a second unit of History 1	2

Group III. Free Electives, 3 units.

***A unit represents a year's study of a subject constituting approximately a quarter of a full year's work or not less than the equivalent of 120 sixty-minute hours of classroom work, two hours of laboratory work counting as one hour of classroom work.**

Candidates entering by the *Plan B* (See page 23), who wish to offer subjects for admission in which examinations are not given by the College Entrance Examination Board are advised to submit the plan for their free electives to the Board of Admission before the beginning of the last year of their preparation for college. Subjects for the four comprehensive examinations must be chosen from the list of examinations offered by the College Entrance Examination Board.

Candidates for admission by *examination in all subjects* must choose the free electives from subjects in which entrance examinations are regularly offered. These subjects include the following:

Foreign Language:	
French	2-4 units
German	2-4 units
Greek	2-3 units
Italian	2-4 units
Latin	a 4th unit
Spanish	2-4 units
Mathematics:	
Solid Geometry	½ unit
Trigonometry	½ unit
Advanced Algebra	½ unit
History:	
American	1 unit
Ancient	1 unit
English	1 unit
European	1 unit
Science:	
Biology	1 unit
Botany	1 unit
Chemistry	1 unit
Physical Geography	1 unit
Physics	1 unit
Zoology	1 unit
Biblical History and Literature	1 unit
Drawing:	
Freehand	1 unit
Mechanical	1 unit
Harmony or Music Appreciation	1 unit
*Applied Music	1 unit

The Board of Admission selects candidates in July on the basis of the complete credentials, including the physician's certificates of health,

*One unit of applied music may be presented only under the following conditions: (1) that it be offered in connection with Harmony or Music Appreciation; (2) that it meet the requirements defined on page 35; (3) that it be tested by examination at Wellesley College.

school records and recommendations, and reports of entrance examinations. Permission for re-examination in September can be granted only in exceptional cases.

A statement from the applicant's physician to the effect that she is organically sound and in good health, together with a certificate of vaccination must be filed with the Secretary to the Board of Admission before June 1 of the year in which admission is sought. Blank forms for these health reports will be sent to each registered applicant in the spring previous to her proposed entrance. Before a candidate is formally accepted she is given a thorough physical examination. The College reserves the right to reject any candidate if the results of this examination in the opinion of the medical staff justify such action or to accept the candidate only on the understanding that she will take five years to complete the course.

The student who has met all entrance requirements is qualified for immediate matriculation for the Baccalaureate degree in Arts.

All communications concerning admission should be addressed to the Secretary to the Board of Admission, Wellesley College, Wellesley, Mass.

METHODS OF ADMISSION

Admission is conditioned on four kinds of evidence of intellectual ability:

1. Records submitted by the secondary school on forms furnished by the Board of Admission of the College, giving the report of subjects studied and grades for the entire secondary school course.
2. A statement from the school principal concerning the applicant's intellectual ability, special interests, and character.
3. Entrance Examinations in subjects offered for entrance to College.
4. The Scholastic Aptitude Test of the College Entrance Examinations Board.

There are two plans of entrance examinations: (1) the New Plan, designated by the College Entrance Examination Board as Plan B; (2) the Plan of examination in all subjects, designated by the College Entrance Examination Board as Plan A.

I. Plan B.—The Candidate must take four examinations, selected from each of the following groups: (1) English or History, selected by the applicant; (2) a foreign language, designated by the applicant; (3) Mathematics or Physics or Chemistry, selected by the applicant; a fourth subject designated by the applicant from the list of subjects which may be offered for admission. The choice must be approved by the Board of Admission.

These four examinations must be taken in one examination season. At least two examinations must cover more than two admission units each.

If History is chosen the examination will be based on one unit only. If Mathematics is chosen the examination may be based on Algebra only (Mathematics A of the College Entrance Examination Board), provided examinations in two other subjects represent three units each.

The Board of Admission must give its permission, based upon the evidence submitted by the school, before the applicant may take the examinations. The comprehensive examinations set by the College Entrance Examination Board are judged by readers appointed by this Board, and forwarded to the College for final decision by the Board of Admission.

Under the comprehensive plan the candidate, if admitted to college, will be admitted free from all conditions. Failure to meet completely the standard in both kinds of evidence required will not necessarily involve rejection of the applicant; the Board may accept unusual excellence in one part of the credentials submitted as offsetting unsatisfactory evidence or even failure in another part. If the candidate fails of admission she may be permitted to take examinations under Plan A or Plan B the following June.

The comprehensive examinations are conducted in June by the College Entrance Examination Board. Information concerning the character and scope of the examinations will be found in a circular of information published by the College Entrance Examination Board.

II. Plan A.—Candidates must take all examinations in June, except such as by permission may be postponed until September. The admission examinations conducted at Wellesley College in June are the examinations of the College Entrance Examination Board of which Wellesley College is a member. These examinations will be held June 16-21, 1930.

Examinations for students entering by examination in all subjects may be taken in two or more successive years. Students are advised to take final examinations in subjects which they expect to continue in college.

Either the comprehensive or the ordinary examinations of the College Entrance Examination Board may be used.

Entrance examinations in Biblical History and Harmony, Music Appreciation and Applied Music will be conducted by Wellesley College. Applications for these examinations must be made to the Secretary to the Board of Admission of Wellesley College by May 1.

All applications for other examinations, and all other inquiries must be addressed to the Secretary of the College Entrance Examination Board, 431 West 117th St., New York, N. Y. Applications must be made upon blank forms to be obtained from the Secretary of the College Entrance Examination Board.

A list of places at which the examinations are held is published about March 1. In order that they may receive proper consideration, requests

that the examinations be held at particular points should be transmitted to the Secretary of the College Entrance Examination Board *not later than February 1.*

Applications for examination at points in the United States east of the Mississippi River or on the Mississippi River, must be received by the Secretary on or before Monday, May 26, 1930, applications for admission to examination elsewhere in the United States or in Canada must be received on or before Monday, May 19, 1930, applications for examination at points outside the United States and Canada must be received on or before Monday, May 5, 1930, and applications for examination in China and elsewhere in the Orient must be received on or before Monday, April 21, 1930.

Applications for examinations *other than the Scholastic Aptitude Test* will be accepted later than the dates named, if in the opinion of the Secretary of the College Entrance Examination Board it is still possible to arrange for the examinations requested, but only upon the payment of an additional fee of *five* dollars by each candidate concerned. *Under no circumstances will the Board accept belated applications for the Scholastic Aptitude Test.*

If the application is received sufficiently early the examination fee is *ten* dollars for each candidate. The fee should be remitted by postal order, express order, or draft on New York to the order of the College Entrance Examination Board.

Examinations will be held in accordance with the Time (Standard or Daylight Saving) observed in the local public schools. Candidates who are to take the Scholastic Aptitude Test should report to the supervisor of examinations on Saturday, June 21, at 8:45 A.M. No candidate will be admitted to the Scholastic Aptitude Test after 9:00 A.M. At centers where Daylight Saving Time is observed candidates should report at 7:45 A.M. Standard Time and the test will begin at 8:00 A.M. Standard Time.

Full information concerning the scope and character of each of the examinations may be found in a circular of information published about December 1 by the College Entrance Examination Board. Upon request a single copy of this document will be sent to any teacher without charge. In general a charge of twenty-five cents, which may be remitted in postage, will be made.

September Examinations.—The comprehensive examinations of the College Entrance Examination Board are offered in September at Wellesley College. Special permission to take these examinations must be obtained from the Board of Admission of Wellesley College, and requests should be entered by August 15. The September examinations are conducted primarily as final examinations for a limited number of promising students who have incurred only a slight failure in the June examinations.

SCHEDULE OF EXAMINATIONS
SEPTEMBER, 1930

MONDAY, SEPTEMBER 15

9-12 A.M.	English.
2- 5 P.M.	French.

TUESDAY, SEPTEMBER 16

9-12 A.M.	Latin.
2- 5 P.M.	History.

WEDNESDAY, SEPTEMBER 17

9-12 A.M.	Elementary Mathematics.
2- 5 P.M.	German, Italian, Spanish.

THURSDAY, SEPTEMBER 18

9-12 A.M.	Chemistry, Physics.
2- 5 P.M.	Greek, Advanced Mathematics.

FRIDAY, SEPTEMBER 19

9-12 A.M.	Scholastic Aptitude Test.
2- 5 P.M.	Biology, Botany, Zoology.

Regents Examinations.—Regents examinations with a rating of 75 per cent may be offered under certain conditions in place of the examinations of the College Entrance Examination Board. Credits must be presented on the card verified by the State Board of Education of New York. For further information concerning the acceptance of Regents Examinations candidates are referred to the Board of Admission of Wellesley College.

DEFINITION OF REQUIREMENTS

The number enclosed in parentheses following the subject indicates the number of units assigned to that subject; that is, the number of years with five recitations a week which will normally be required in the secondary school for adequate preparation in the subject.

ENGLISH (3)

The study of English in school has two main objects: (1) command of correct and clear English, spoken and written; (2) ability to read with accuracy, intelligence, and appreciation, and the development of the habit of reading good literature with enjoyment.

Grammar and Composition.—English grammar should ordinarily be reviewed in the secondary school; and correct spelling and grammatical accuracy should be rigorously exacted in connection with all written work during the four years. The principles of English composition governing

punctuation, the use of words, sentences, and paragraphs should be thoroughly mastered; and practice in composition, oral as well as written, should extend throughout the secondary school period. Written exercises may well comprise letter-writing, narration, description, and easy exposition and argument. It is advisable that subjects for this work be taken from the student's personal experience, general knowledge, and studies other than English, as well as from her reading in literature. Finally, special instruction in language and composition should be accompanied by concerted effort of teachers in all branches to cultivate in the student the habit of using good English in her recitations and various exercises, whether oral or written.

To meet the requirement in Composition, there should be practice in writing equivalent to weekly themes the first two years, and fortnightly themes the last two years of the preparatory course. Themes should be accompanied by simple outlines. The following books are suggested: Scott and Denney's *Composition—Rhetoric;* Neal's *Thought Building in Composition;* Robins and Perkins' *Introduction to the Study of Rhetoric* supplemented by Herrick and Damon's *Composition and Rhetoric;* Shackford and Judson's *Composition—Rhetoric—Literature;* Manly and Rickert's *The Writing of English.*

Literature.—The second object is sought by means of the reading and study of a number of books, from which may be framed a progressive course in literature covering four years. The student should be trained in reading aloud and be encouraged to commit to memory notable passages both in verse and in prose. As an aid to literary appreciation, she is further advised to acquaint herself with the most important facts in the lives of the authors whose works she reads and with their place in literary history. A few of these books should be read with special care, greater stress being laid upon form and style, the exact meaning of words and phrases, and the understanding of allusions.

A list of the books recommended for reading and study and suggestions concerning preparation for the College Board examinations in English will be found in a document entitled "Definition of Requirements," published by the College Entrance Examination Board.

HISTORY (1, 2 or 3)

All applicants for admission are required to offer one unit in History. One or two additional units of History may be offered from the following: (1) American History (with or without Civil Government), (2) Ancient History, (3) English History, (4) European History. For suggestions about preparation in History and the scope of the College Board examinations candidates are referred to a document entitled "Definition of Requirements," published by the College Entrance Examination Board.

MATHEMATICS (3 or 4)

In a document entitled "Definition of Requirements," published by the College Entrance Examination Board, will be found the description of the requirements.

Algebra.—The requirement is met by the course in Mathematics designated as A.

Plane Geometry.—The requirement is met by the course in Mathematics designated as C. If desired, the course designated as *cd* may be substituted.

Solid Geometry and Trigonometry.—The requirement is met by the courses in Mathematics designated as D and E.

LATIN (3 or 4)

4 Unit Requirement.—Candidates should be familiar with the forms and syntax of the language and possess a vocabulary sufficient to translate Latin into idiomatic English and English into correct Latin. They should also be able to translate at sight Latin prose and poetry of moderate difficulty and to read Latin prose and verse according to the Roman method of pronunciation with strict attention to vowel quantities. To attain such proficiency not less than five forty-minute periods a week for four years should be given to the study of Latin.

The following recommendations are made in respect to the reading:

(1) In the second year the early reading should be easy Latin which may be "made" or adapted Latin; not less than one half of this year should be devoted to the reading of selections from Cæsar. The reading for the year may also include easy selections from such authors as Aulus Gellius, Eutropius, Nepos, Phaedrus, Quintus Curtius Rufus, and Valerius Maximus, or books of selections containing some of these together with authors of prose works.

(2) In the third year, if the reading be in prose, not less than one half should be devoted to the reading of selections from Cicero; the reading for the year may also include selections from such authors as Pliny, Sallust, and Livy, or books of selections containing these and other authors of prose works.

(3) In the fourth year, if the reading be in poetry, not less than one half should be devoted to the reading of selections from Vergil; and the reading for the year may also include selections from such works as the Metamorphoses, Tristia, Heroides, and Fasti of Ovid, or books of selections containing poems or extracts from Ovid or from other poets.

The examination paper will include passages of Latin prose and verse of varying degrees of difficulty for "comprehension" and translation, and passages for Latin composition for the candidates presenting three years

of Latin, and for those presenting four years of Latin in one examination. Accompanying the different passages set upon the paper will be questions on forms, syntax, and the idioms of the language, as well as such questions on the subject-matter, literary and historical, as may fairly be asked.

Further information concerning the character of the examination in four units of Latin will be found in a document entitled "Definition of Requirements," published by the College Entrance Examination Board.

3 Unit Requirement.—The course of study for the first two years is the same as for candidates offering four units of Latin for admission. In the third year either the prose authors or the poetry may be offered. Constant practice in Latin writing is essential. Suggestions for study will be found in the document referred to above.

SUGGESTIONS CONCERNING PREPARATION.—Exercises in translation at sight should begin in school with the first lessons in which Latin sentences of any length occur, and should continue throughout the course with sufficient frequency to insure correct methods of work on the part of the student. From the outset particular attention should be given to developing the ability to take in the meaning of each word—and so, gradually, of the whole sentence—just as it stands; the sentence should be read and understood in the order of the original, with full appreciation of the force of each word as it comes, so far as this can be known or inferred from that which has preceded, and from the form and the position of the word itself. The habit of reading in this way should be encouraged and cultivated as the best preparation for all the translating that the student has to do. No translation, however, should be a mechanical metaphrase, nor should it be a mere loose paraphrase. The full meaning of the passage to be translated, gathered in the way described above, should finally be expressed in clear and natural English.

It is of special importance that practice in writing easy Latin *at sight* should be continued *throughout the entire period of preparation* in connection with the reading of the Latin authors. In the last year special attention should be given to translating continuous English into Latin both in the prepared and sight work.

A written examination cannot test the ear or tongue, but proper instruction in any language will necessarily include the training of both. The school work in Latin, therefore, should include much reading aloud, writing from dictation, and translation from the teacher's reading. Learning suitable passages by heart is also very useful, and should be more practiced. The work in composition should give the student a better understanding of the Latin she is reading at the time, and greater facility in reading. The teachers of Latin in the preparatory schools are urged to insist upon the use of good English in translation.

The study of Greek is strongly recommended to candidates who plan to elect courses in Latin in college. Ability to read at sight easy French or German prose is of great advantage to all classical students.

FRENCH (2, 3 or 4)

The requirements follow the recommendations of the Modern Language Association embodied in a document entitled "Definition of Requirements," published by the College Entrance Examination Board. To this document candidates are referred for information about the work to be accomplished to fulfill the requirements in the different years of preparation. The following general suggestions concerning preparation are offered:

(1) Emphasis should be laid on the correct daily use of the spoken language in the class room, on the correct and intelligent reading of French and on direct composition, including the writing of short themes in French. (2) It is particularly urged that the reading be chosen *from nineteenth century writers of prose, verse, and drama,* and if possible from more than five authors. (3) French being the language used in the class room in College, students are expected to understand it when spoken by the instructor in the class room, and to be able to answer in French when asked questions on their work and reading.

The texts suggested are:—(1) For the two unit requirement: Laboulaye: *Contes bleus;* George Sand: *La Mare au Diable;* Erckmann-Chatrian: *Le Trésor du vieux seigneur;* France: *Abeille;* Augier: *Le Gendre de M. Poirier;* Lavisse: *Histoire de France,* cours moyen. (2) For the three unit requirement: Maupassant: *Contes Choisis;* Daudet: *Contes;* Mérimée: *Colomba;* France: *Le Livre de mon Ami;* Monro: *French Revolution Portraits* (Dutton). (3) For the four unit requirement: V. Hugo: *Les Misérables* or *Quatre-Vingt-Treize;* Musset: *Trois Comédies;* Loti: *Pêcheur d'Islande;* Fabre: *Les Merveilles de l'Instinct chez les Insectes* (Dutton); An anthology of French verse.

GERMAN (2, 3 or 4)

The requirements follow the recommendations of the Modern Language Association embodied in a document entitled "Definition of Requirements," published by the College Entrance Examination Board. To this document candidates are referred for information about the work to be accomplished to fulfill the requirements in the different years of preparation. The following general suggestions concerning preparation are offered:

(1) The books selected for class study should be thoroughly German in character and content. Intensive work on a comparatively small number of pages is preferred to a more superficial study of a larger number of pages. For the two unit requirement the number of pages read in class should, in general, not exceed 300; but in no case should the amount

be less than 225 pages. Not more than 100 pages should be taken from readers arranged especially for beginners. For the three unit requirement not more than 600 pages in all (i.e., 300 in addition to the maximum amount for the two unit requirement) should, in general, be read; but never less than 500 pages. Not more than one work of the classical period of German Literature should be included. Besides this intensive reading some *rapid home reading* of easier texts (100 pages or more) is strongly urged. (2) The results desired can *not* be obtained if a considerable portion of the time is spent on translation from German into English, or vice versa. (3) Features that should not be neglected are—*a.* Vocabulary: the careful study of a goodly number of common words and expressions drawn chiefly from the texts read. *b.* Frequent practice in the oral and written use of the language *without the medium of English.* This should consist partly in answering in German questions put in German, based on the texts read intensively in class, partly in reproducing in German, without the aid of questions, the contents of these texts (Freie Reproduktion).

GREEK (2 or 3)

2 Unit Requirement.—During the two years the student should acquire a knowledge of the language sufficient to enable her (1) to translate at sight simple passages of Attic prose, and to answer questions on ordinary forms and constructions; (2) to translate into Greek a passage of connected English narrative, based on Xenophon; (3) to read Greek aloud with correct pronunciation and with full expression of the sense of the passage.

The prescribed study includes—(1) Grammar: inflections; the simpler rules for composition and derivation of words; use of cases; construction of sentences, with particular regard to the use and meanings of the moods. (2) Prose Composition: regular practice in writing or speaking Greek, with at least twenty written exercises, including some connected passages. (3) Three books of Xenophon's *Anabasis*, or its equivalent.

SUGGESTIONS CONCERNING PREPARATION.—The acquiring of a good working vocabulary should begin with the first lesson, and constant practice in the use of the more common words should be kept up throughout the course. The students should learn to recognize the words by hearing as well as by sight, and should be able to use them in speech as well as in writing. Writing Greek from dictation, learning short passages by heart, and putting simple English sentences into Greek orally, or answering in Greek simple questions asked in Greek serve not only to fix vocabulary and forms in the students' minds, but also to give them a feeling for the natural Greek form of expression.

3 Unit Requirement.—In addition to the preparation for the two unit requirement stated above, the student must be able to translate at sight a passage from Homer, to read it with a correct expression of the rhythm, and to answer a few questions on the Homeric forms and on the subject-matter.

The prescribed study includes: three books of Homer's *Iliad;* Prose Composition, continued practice in translation into Attic prose of connected passages of English.

ITALIAN (2, 3 or 4)

The requirements are stated in a document entitled "Definition of Requirements," published by the College Entrance Examination Board.

To meet the two unit requirement the pupil should at the end of the first year be able to read simple Italian prose; to put into Italian simple English sentences taken from the language of every-day life or based upon a portion of the Italian text read; and to answer questions on the rudiments of the grammar, as defined below.

During the first year the work should comprise: (1) The rudiments of grammar, including the inflection of the regular and more common irregular verbs; the inflection of nouns, adjectives, participles and pronouns; the use of pronouns, adverbs, prepositions, and conjunctions and the elementary rules of syntax. (2) Written and oral exercises involving rules of grammar and forms of expression. (3) Careful drill in pronunciation. (4) Careful reading and accurate rendering of 100 duodecimo pages of graduated text. (5) Memorizing about 100 lines of poetry. (6) Writing Italian from dictation.

Suitable texts for the first year are: L. A. Wilkins and Santelli, *First Italian Reader;* Farina, *Fra le Corde di un Contrabasso;* E. H. Wilkins and Marinoni, *L'Italia;* Goldoni, *La Locandiera.*

During the second year the work should comprise: (1) More advanced grammar work with special stress on the irregular verb, the subjunctive mood, uses of tenses, and of the conjunctive pronouns. (2) Reading of about 200 pages of modern prose in the form of stories and plays. (3) Compositions (15-20), translations and abstracts with constant application of rules of grammar. (4) Memorizing of simple poems. (5) Writing from dictation. (6) Frequent oral and written reports on reading or assigned subjects.

Suitable texts for the second year are: Stories, plays, and history by different authors; Goldoni, *Il Vero Amico, Un Curioso Accidente, Il Ventaglio;* Marinoni, *Italian Reader;* Pellico, *Le Mie Prigioni;* Ojetti, *Cose Viste.*

At the end of the third year the pupil should be able to read at sight ordinary Italian prose or simple poetry; to translate into Italian a con-

nected passage of English based on the text read; and to answer questions involving a more thorough knowledge of syntax than is expected in the elementary course.

This should comprise the reading of about 300 pages of Italian of ordinary difficulty; practice in giving summaries in Italian of selected portions of the matter read; the discussion in Italian of the main facts of Italian history and customs for the study of which the teacher will provide the material; systematic review of grammar; and more advanced composition including free composition and the writing of social and commercial letters.

Suitable texts for the third year are: Bergen and Weston, *An Italian Reader of the 19th Century Literature;* Bowen, *Italian Reader;* Fogazzaro, *Pereat Rochus;* Giacosa, *Una Partita a Scacchi;* Manzoni, *I Promessi Sposi;* E. H. Wilkins and R. Altrocchi, *Italian Short Stories;* Rovetta, *Romanticismo;* D'Annunzio, *Il Fuoco;* Vivanti, *Sua Altezza.*

For suggestions on the work of the fourth year consult a document entitled "Definition of Requirements," published by the College Entrance Examination Board.

SPANISH (2, 3 or 4)

The requirements follow the recommendations of the Modern Language Association embodied in a document entitled "Definition of Requirements," published by the College Entrance Examination Board. To this document candidates are referred for information about the work to be accomplished to fulfill the requirements in the different years of preparation. The following general suggestions concerning preparation are offered:

(1) Grammar: verb drill; difference between *ser* and *estar;* use and position of pronouns; prepositions required with different verbs and adjectives; use of subjunctive and infinitive. (2) In reading, two ideas should be kept in mind: (*a*) accurate translation especially of idiomatic expressions; (*b*) a gradual development of the power to think in Spanish, by requiring the student to explain the meaning of words and phrases in Spanish and give variations of text also in Spanish. (3) From the beginning the student should gradually become accustomed to the use of the spoken language in the class room, training the ear by means of short talks on different subjects given by the teacher, and the tongue by the different methods already suggested. Original work in composition should also be required.

The texts suggested for the two unit requirement are: A collection of short stories by different authors; a collection of brief comedies; a collection of easy lyrics (Spanish and Spanish-American) or of verse fables; a Spanish or Spanish-American historical reader; Alarcón, *El Capitán Veneno;* Carrión and Aza, *Zaragüeta;* Frontaura, *Las tiendas,*

Quintana, *Vasco Núñez de Balboa;* Jorge Isaacs, *María;* Palacio Valdés, *José;* Mármol, *Amalia.*

The texts suggested for the three unit requirement are: Taboada, *Cuentos alegres;* Isla's version of the *Gil Blas;* Selgas, *La mariposa blanca;* Pérez Galdos, *Doña Perfecta;* Palacio Valdés, *La Hermana San Sulpicio;* a collection of essays dealing with Spanish or Spanish-American life and customs; Moratín, *El sí de las niñas;* Larra, *Partir a tiempo;* plays of the Alvarez Quintero brothers; plays of Benavente.

SCIENCE (1, 2 or 3)

One to three units of science may be offered from the following subjects: (1) Biology, (2) Botany, (3) Chemistry, (4) Geography, (5) Physics, (6) Zoology. The requirements in science are met by the courses outlined in a document entitled "Definition of Requirements," published by the College Entrance Examination Board. The requirement in Botany may also be met by covering the main features in the course outlined in the Laboratory Guide for the introductory course at Wellesley College. Copies of this guide may be secured if desired from the office of the Board of Admission, Wellesley College.

All students offering science for admission must submit certificates concerning the laboratory work in science. Blank forms for this purpose may be obtained either directly from the College Entrance Examination Board in New York or from the Board of Admission of Wellesley College. *Students are not required to submit laboratory notebooks for admission credit in science.*

MUSIC (1 or 2)

One unit of admission credit is granted in either Harmony or Appreciation.

Two units of admission credit are granted for either of the following combinations: I. Harmony and Practical Music; II. Appreciation and Practical Music.

No admission credit is given for Practical Music alone.

A. Harmony.—Students taking this examination must present, at the time of the examination, their harmony notebooks indorsed by their teachers. The examination will be adapted to the proficiency of those who have had one year's systematic training with at least five lessons a week or its equivalent. (It is understood that this work may be done in two or more years.) The candidate should have acquired:

(1) The ability to harmonize in four vocal parts simple melodies or basses of not fewer than eight measures in major and minor. These melodies and basses will require a knowledge of (a) triads and inver-

sions, (b) diatonic seventh chords and inversions, (c) non-harmonic tones, (d) modulation, transient and complete, to nearly-related keys.

It is expected that systematic work in ear-training, involving the recognition of intervals (melodic and harmonic), melodies, and chords, has been done in connection with the above, and students will be examined in the same.

The ground covered by this examination is represented by the following textbooks. Goetschius: *The Theory and Practice of Tone Relations*, Chaps. I through XXI. Foote and Spalding: *Modern Harmony*, Chaps. I through XXI. Gehrkens: *Music Notation and Terminology* is suggested for rudiments, and Wedge: *Ear-Training and Sight-Singing* for practice in the recognition of intervals and for melodic dictation. Material for practice in the recognition of chords may be found in any harmony textbook.

B. Appreciation.—It should be the purpose of this course (a) to provide suitable training to accompany the study of practical music during the preparatory years, (b) to prepare students for entering a course in elementary harmony, (c) to acquaint students with a small but representative literature of music and with some of the elements of musical form.

The course should cover the following:

(NOTE: It is suggested that the material outlined below under I and II be made *prerequisites* to the course, not included in it.)

I. Elements: names of the scale tones; scale formation, major and minor; key signatures; commonly used time signatures; commonly used marks of expression; chord formations including the dominant seventh.

II. Ear-training: recognition of major and minor scales and triads; recognition of all intervals in major and minor scales; recognition of plagal cadence, perfect cadence, half cadence, deceptive cadence; recognition of duple and triple meters and of rhythms characteristic of Waltz, Minuet, Mazurka, and Polonaise.

III. A study of the following forms: Simple Three-part song-form, Binary Form, Ternary Form, Rondo Form, Theme and Variation Form, Minuet and Trio Form.

In testing this knowledge, the student will be required to recognize the form of a composition upon hearing it played three times.

IV. Memory work. The examination will include a memory test of representative musical examples. A list of at least twenty examples chosen by the student (from the works suggested for use in appreciation courses

by the music departments of the Four Eastern Women's Colleges*) must be presented to the examiner. The examination on this part of the work will be based on the list thus presented.

C. Practical Music.

PIANO. The candidate must be prepared to play for the examiners the following and no candidate will be examined who is not *ready to perform* these requirements: (1) Any scale (including major and all forms of minor) at metronome speed of four notes = 88. (2) Any two studies selected by the student from Czerny, Opus 261, Heller, Opus 45, or Le Couppey, Opus 20. (3) A Bach Two-Part Invention. (4) The first movement of a sonata by Haydn, Mozart, or Beethoven. (5) A piece of moderate length (which must be memorized) selected from the works of Schubert, Schumann, Mendelssohn, or Chopin. (6) Hymn tunes and simple pieces at sight.

VOICE. The candidate must be prepared to meet the following requirements: (1) To sing with good pitch and intonation, technical facility, correct phrasing, and musical interpretation not fewer than six of the following songs: Any song of MacDowell, Franz, Schubert, Schumann, or Brahms; Mozart's *Wiegenlied,* Grieg's *Mit einer Primula Veris* or *Der Schwan;* any of the Weckerlin bergerettes; any song from Schirmer's *Anthology of Italian Song;* or other songs with the approval of the Department. (2) To play simple accompaniments. (3) To sing at sight music of the type of folk songs, Brahms' *Wiegenlied.* Schubert's *Haiden Röslein,* and others.

VIOLIN. The candidate must be prepared to play: (1) Major and minor scales with good intonation. (2) Any two studies of the grade of Dont, Opus 38 or Mazas, Opus 36, Vol. I. (3) A sonata of Mozart, a sonatina of Schubert, or solo of moderate difficulty with correct phrasing and musical tone. (4) Simple pieces at sight.

BIBLICAL HISTORY (1)

A course such as the one outlined by a committee of the National Association of Biblical Instructors will meet the requirement. A statement of this course has been published in "Christian Education," March, 1928, pp. 385-392, and a reprint of this can be obtained from the Council of Church Boards of Education, 111 Fifth Ave., New York City.

Admission to Advanced Standing

Candidates for advanced standing must fulfill the requirements for admission to the freshman class, and when not entering from other col-

*A list of these compositions will be furnished on application to the Department of Music of Wellesley College.

leges must pass examinations in a sufficient number of hours of work to gain full standing with the class which they wish to join. All examinations on courses offered for advanced credit must be taken at Wellesley in February and June. Special arrangements must be made for admission to these examinations, and applications must be received by January first.

A candidate whose college credentials show that she has covered the admission requirements for the freshman class and has completed a highly satisfactory year of work at another college may, at the discretion of the Board of Admission, be admitted without examination to the courses for which her previous training seems to qualify her. The colleges and universities from which credits are accepted without examination are those approved by the Association of American Universities. *The number of students to be admitted to advanced standing in any year is limited. The admission of all candidates for advanced standing will be on a competitive basis.*

An applicant desiring to enter under this provision must make a complete written statement of the work on which she bases her application. Blank forms of application will be furnished by the Board of Admission. An application fee of $10 is required of all applicants and no registration is recorded until this fee has been paid. (See page 140.)

Much importance is attached to the quality of the work offered. In order to be recognized as a candidate for advanced standing, a student must present evidence in the previous school and college records and in letters from former instructors that she is a student of excellent ability and unusual promise. The Board of Admission will correspond with the college attended by the applicant and request her entire record and letter of honorable dismissal. The required credentials for all candidates are due July first. The decision as to the successful applicants for admission to advanced standing will be made in the summer of the year of entrance, after the reports from the various colleges have been received.

Candidates admitted from other colleges will usually be required to register during the first year as Unclassified Students. At least two years of residence are required to obtain the B.A. degree, of which one must be the senior year. The work of these two years must include all of the prescribed work (see pages 40 to 42) not covered by the credentials submitted.

All correspondence should be addressed to the Board of Admission.

Admission of Candidates for the M.A. and M.S. Degrees

Candidates for the degree of Master of Arts or Master of Science in Hygiene and Physical Education must be graduates of Wellesley College or of other institutions of satisfactory standing, and must present ade-

quate credentials signifying their ability to carry on the work for the degree.

Application for admission as a graduate student in any department should be made upon a form which will be furnished by the Chairman of the Committee on Graduate Instruction on request. It is desirable that the application be sent by May first of the year in which the student proposes to enter. It should be accompanied (1) by the official record of admission subjects, college courses and grades, (2) by a copy of the catalogue of the institution attended, marked to indicate the courses taken, (3) if possible, by papers and reports of work.

A matriculation fee of five dollars is payable when a student is accepted as a candidate for the Master's degree. The amount of this fee will be deducted from the diploma fee of twenty-five dollars payable when the degree is received.

Graduate fellowships and scholarships are described on page 141.

A circular containing full information for graduate students will be sent on application to the Chairman of the Committee on Graduate Instruction. For requirements for the M.A. and M.S. degrees see page 44.

Admission of Students Not Candidates for a Degree

Candidates for the Certificate in Hygiene and Physical Education

A two years' course, especially designed for the training of teachers of hygiene and physical education, and leading to the certificate of the Department of Hygiene and Physical Education, is offered to graduates of approved colleges who meet the requirements. Full information will be found on pages 98 to 103.

Correspondence should be addressed to the Chairman of the Committee on Graduate Instruction.

Candidates for Special Work in Other Departments

Applicants who give satisfactory evidence of ability to pursue advanced courses of study may be admitted at the discretion of the Board of Admission, provided that they satisfy the requirements of the departments which they propose to enter. It will be noted that opportunities for prosecuting work along special lines are thus open to persons of experience and success in teaching who possess the requisite qualifications for admission to college classes.

Applicants of less maturity and attainment are not ordinarily admitted, but if such desire admission they must expect to meet by examination the requirements prescribed for admission to the freshman class, or a full

equivalent for them, and to satisfy such additional requirements as are prescribed by the departments which they propose to enter. Specific statements of these requirements in Music will be found on page 119.

All courses, graduate as well as undergraduate, are open to special students, subject to the conditions stated by the various departments; but every such student is expected to choose a primary subject to which she should devote the greater part of her time. A student who creditably completes a prescribed group of courses will be granted a certificate.

As the capacity of halls of residence is not sufficient for candidates for degrees, special students cannot be lodged in the college buildings. Comfortable homes may be found in the village at about the same expense as in college houses.

Correspondence should be addressed to the Secretary to the Board of Admission.

DEGREES

The following degrees are conferred by the Trustees upon recommendation of the Academic Council:—

Bachelor of Arts.
Master of Arts.
Master of Science in Hygiene and Physical Education.

Requirements for the B.A. Degree

In 1930

Every candidate for the B.A. degree must complete before graduation the equivalent of sixty hours. Two grades in work which reaches the passing mark are distinguished: one *"Passed"*; the other, *"Passed with Credit."* In order to be recommended for the degree of Bachelor of Arts a student must have "passed with credit" in not less than six hours in the first semester of the freshman year and in not less than nine hours in each succeeding semester. Deficiency of such work in any semester may be made good in accordance with regulations adopted by the Faculty. First-year French and first-year German may not *both* be counted among the sixty hours. Neither first-year French nor first-year German may be so counted if taken after the sophomore year. Second-year French, second-year German, first-year Italian and first-year Spanish may not be counted among the sixty hours, if taken after the junior year. Of the sixty hours required for the B.A. degree, a certain number is prescribed, the rest elective.

I. PRESCRIBED. The following subjects are required as specified:

Biblical History	4½ hours
English Composition	3* "
Hygiene and Physical Education . .	2† "
Philosophy and Psychology . . .	3 "
Reading and Speaking	1 hour
Mathematics (unless four entrance units are presented to constitute a satisfactory equivalent)	3 hours
A foreign language (unless satisfactory evidence of a knowledge of a third language is presented for admission) . .	3 "
A biological science (unless two years of satisfactory biological science or sciences are offered for admission) . . .	3‡ "
A physical science (unless two years of satisfactory physical science or sciences are offered for admission)	3‡ "

Of the required subjects, English Composition, Mathematics, one of the sciences and a foreign language (if a third language is not offered for admission), three hours each must be taken in the freshman year; Hygiene and Physical Education one and one-half hours in the freshman year, and one-half hour in the sophomore year; Biblical History, three three-hour semester courses in the sophomore and the junior years; Reading and Speaking, one hour per week in the sophomore year. Philosophy should preferably be taken in the sophomore year.

II. ELECTIVE. All courses are classified in Grades I, II, III; Grade I including elementary courses and Grade III the most advanced courses. All of the sixty hours not indicated in the above are elective, subject to the approval of the Faculty with the following restrictions:

*If a student fails to pass with credit in the second semester of English Composition 101, she will be required to take an additional semester course in the sophomore year.

†One hour of this requirement is met by a one-hour course in Hygiene and Physical Education in the freshman year; the second hour is met by four periods in practical work, two periods per week in the freshman year and two in the sophomore year.

‡If a student presents for admission one year of satisfactory biological science and one year of satisfactory physical science she will be required to take but one in college and may choose either a biological or a physical science. The biological sciences are Botany, Geology, and Zoology; the physical sciences, Astronomy, Chemistry and Physics.

Every candiate for the B.A. degree must show before graduation that she has completed

(1) Nine hours in each of two departments

or

(2) Twelve hours in one department and six in a second department

or

(3) Twelve hours in one department and six in allied courses.

Of the courses offered to fulfill this requirement, at least one full course of Grade III must be taken in the senior year. The nine-hour group must consist of at least six hours above Grade I, three hours of which must be of Grade III. The twelve-hour group must consist of at least nine hours above Grade I, six hours of which must be of Grade III. The six-hour group must include at least three hours above Grade I.

Every candidate for the B.A. degree must pass a General Examination in a major of nine or more hours in addition to the regular course examinations.

In 1931 and Thereafter

Every candidate for the B.A. degree must complete before graduation the equivalent of sixty hours. A certain quality grade is required for graduation and for the purpose of determining this quality grade, numerical values called "points" are given to the grade letters as follows: for grade A, three points for each semester hour of the course in which the grade is received; for grade B, two points; for grade C, one point; for grade D (passing), no points; for a grade below D, one point is deducted. In order to be recommended for the degree of Bachelor of Arts a student must have obtained not less than nine quality points in the first semester of her freshman year and not less than twelve quality points in each succeeding semester. Deficiency of points in any semester may be made good only in accordance with regulations adopted by the Faculty. Students who are deficient in quality points at the end of the third year or otherwise not of diploma grade will not be permitted to continue. First year French and first year German may not *both* be counted among the sixty hours. Neither first-year French nor first-year German may be so counted if taken after the sophomore year. Second-year French, second-year German, first-year Italian and first-year Spanish may not be counted among the sixty hours, if taken after the junior year. Of the sixty hours required for the B.A. degree, a certain number is prescribed, the rest elective.

I. PRESCRIBED. The following subjects are required as specified:

Biblical History	4½ hours
English Composition (unless exempted by examination)	3* "
Hygiene and Physical Education 120 (unless exempted by examination) . . .	1 hour
Hygiene and Physical Education (practical)	1† "
Reading and Speaking (unless exempted by examination)	1 "
Mathematics or Philosophy and Psychology	3 hours
A laboratory science	3 "
A foreign language or a second year of laboratory science	3 "

II. ELECTIVE. All courses are classified in Grades I, II, III; Grade I including elementary courses and Grade III the most advanced courses. All of the sixty hours not indicated in the above are elective, subject to the approval of the Faculty with the following restrictions:

Every candidate for the B.A. degree must show before graduation that she has completed twenty-one hours of restricted elective work, as follows:

(1) Twelve hours in one department
Nine hours in a second department,

or

(2) Nine hours in one department
Nine hours in a second department
Three hours in a third department.

The three-hour elective is to be supplementary to the work of one of the departments in which nine hours are chosen;

or

(3) Twelve hours in one department
Six hours in a second department
Three hours in a third department.

The six-hour and three-hour electives are to be supplementary to the work of the department in which twelve hours are chosen;

or

(4) Twelve hours in one department

Three courses (conceivably in different departments) supplementary to the twelve hours.

*If a student fails to pass with credit in the second semester of English Composition 101, she will be required to take an additional semester course in the sophomore year.

†The hour in practical Hygiene and Physical Education is met by four periods in practical work, two periods per week in the freshman year and two in the sophomore year.

Of the courses offered to fulfill this requirement, at least one full course of Grade III must be taken in the senior year. Of the twenty-one hours required at least nine hours must be above Grade I and at least six hours must be of Grade III.

Every candidate for the B.A. degree must pass a General Examination in a major of nine or more hours in addition to the regular course examinations.

Honors in Subjects

Students who wish to become candidates for Honors may apply in the spring of their sophomore or junior year to the special committee appointed to consider these applications.

All applications from candidates for Honors in Subjects must be accompanied by recommendations from the instructors concerned.

A student electing to study for Honors in Subjects will choose a Field of Distinction and will work in that field under the special direction of one or more of the instructors concerned who will advise her on the possible development of her Field of Distinction and will guide her in the carrying on of independent work within it.

A candidate for Honors in Subjects must take all the prescribed work. In place of the regular restricted elective she must take at least twenty-one hours in the chosen Field of Distinction. This Field of Distinction includes work in the major department and allied courses, and with the approval of the major department directing the work may include not more than three hours of research independent of scheduled courses, thus giving the able student a stimulus to form habits of investigation in a manner to lead to advanced study.

Admission to Honors in Subjects will be confined to candidates whose scholarship, maturity and previous range of acquirement justify exceptional concentration. The work in the Field of Distinction for such a candidate will be subject to the following tests:

1. In general the regular tests of the courses in the Field of Distinction must be taken, including the examinations in these courses through the junior year.

2. A comprehensive examination must be taken in the student's Field of Distinction at the close of the senior year. This examination will take the place of the general examination required for seniors and will be in part or wholly oral.

Pre-Medical Course

The programme is based upon the requirements for admission to medical schools of Class A, but each student is advised to study carefully the requirement for the particular school which she has chosen.

Pre-medical students must meet the requirements for the degree as stated above under I Prescribed and II Elective.

These students may meet the restricted elective requirement, given under II, by a combination of nine hours in Chemistry and six hours in Physics and Zoology respectively. The following programme is arranged for such students to meet the science and language requirement.

Freshman Year	*Hours*
Chemistry	3
Zoology	3

At least a reading knowledge of French or German is required by medical schools.

Sophomore Year	*Hours*
Chemistry	3
Physics	3

Junior Year	*Hours*
Chemistry or Zoology	3
Physics	3

Senior Year	*Hours*
Zoology or Chemistry	3
Additional Science	3

since certain Class A medical schools require it.

The senior programme must include at least one course of Grade III, preferably in science.

General Instructions

The programme in the freshman year is as follows:—

English Composition 101	3 hours
Hygiene and Physical Education 120	1 hour
Hygiene and Physical Education 121	½ "
*Courses open to choice	12 hours
Total	16½ hours

The courses must be chosen in accordance with the prerequisites given

*In considering the *prescribed subjects* open to choice (see page 41), the following should be noted. If Mathematics is chosen it is advisable that it be taken in the freshman year. Philosophy and Psychology are not open to students below sophomore rank, but if chosen should preferably be taken in the sophomore year. It is advisable that either a science or language be taken in the freshman year.

in the department statements from the list of courses named below, with the advice that the choice should not include:

(1) Two beginning courses in modern language.

(2) More than one of the following subjects: Art, Musical Theory, Reading and Speaking, 101.

Language	*Sciences*	*Other Subjects*
French 101, 102, 103, 201	Astronomy 101	Art 101
German 101, 102, 103 104.	Botany 101	English Literature 104, 105, 106, 107
Greek 101, 201 with 202 or 205	Chemistry 101, 102 with 201 or 206.	History 103
Italian 101	Geology 101	Mathematics 106, 107
Latin 101, 102, 103	Physics 101, 104, 102 with 203 or 205	Musical Theory 101
Spanish 101, 102, 103	Zoology 101	Reading and Speaking 101, 104.

If 16½ hours are satisfactorily completed in the freshman year, the normal programme for the remaining years would be as follows:—

Sophomore year	16½ hours
Junior year	15 "
Senior year	12 "

If 16½ hours are not completed in both the freshman and sophomore years, a student may carry more hours in the junior and senior years than specified above, subject to the usual regulations.

Elective courses must be chosen with great care so that changes will not be necessary. Students are held responsible for observing the requirements for the degree and the proper sequence of courses.

Students, except entering freshmen, are required to choose in May their free and restricted electives for the year following. All requests for changes of elective courses should be sent to the Dean of the College before September 15th. In general, no changes may be made after the beginning of the year.

Requirements for the M.A. and M.S. Degrees

Wellesley College offers graduate work leading to the degrees of Master of Arts and Master of Science in Hygiene and Physical Education. The work required of a candidate is considered to be the equivalent of twelve hours of college work and may be done in one subject or two related subjects. The programme includes, in general, no fewer than two full courses of Grade III or their equivalents in the major subject, and may include a thesis embodying the results of original research or a report or

reports based on independent work. A candidate for either degree is required to have a working knowledge of either French or German, to be tested by examination *at entrance*. Individual departments may require a second language. At least one year of graduate study is required of all candidates, but more time may be needed for the completion of the work. One year *in residence* is required of all candidates except graduates of Wellesley College who have done the work at some institution which does not grant a Master's degree to women.

Information regarding theses, final examinations, etc., will be found in the Graduate Circular which will be sent on application to the Chairman of the Committee on Graduate Instruction.

COURSES OF INSTRUCTION

The following Courses of Instruction are offered by the several departments. The College reserves the right to withdraw the offer of any course not chosen by at least six students.

All courses are classified in grades, I, II, III; grade I including elementary courses and grade III the most advanced courses. Grade I courses are numbered 101, etc.; grade II courses 201, etc.; grade III courses 301, etc.

ART

PROFESSORS: ALICE VAN VECHTEN BROWN[5], (DIRECTOR OF THE ART MUSEUM.)
MYRTILLA AVERY, B.L.S., PH.D. (CHAIRMAN.)
LECTURERS: ELIZA NEWKIRK ROGERS, M.A.
HARRIET BOYD HAWES[6], M.A., L.H.D.
SIRAPIE DER NERSESSIAN[7], LIC. ÈS LET., DIPL. E.S., DIPL. E.H.E.
INSTRUCTORS: AGNES ANN ABBOT.
DELPHINE FITZ DARBY, M.A.
ASSISTANTS: HELEN BOSTICK HAMILTON, B. DES.
KATHRYN EMILY DOUGLAS ALBIN, B.A.
ADELE DE LA BARRE, B. DES.

SECRETARY OF THE MUSEUM: CELIA HOWARD HERSEY, B.A.
CATALOGUER: ESTHER VAN ALLEN, B.A., B.S.
MUSEUM ASSISTANTS: ALICE CHURCHILL MOORE.
MARY CATHERINE KEATING.

Drawing and other practical work is required as part of all the courses in art (except course 203) in order to develop an appreciation of æsthetic values as well as the ability to differentiate styles. No special aptitude is necessary for this laboratory work, but rather a careful study of material and serious effort to record observations. All courses require close study of photographs and of originals in American museums when available.

101. INTRODUCTORY COURSE IN THE HISTORY OF ART. This course aims to lay foundations for further study of the history of art. Although leading directly to course 205, this course is complete in itself, being concerned primarily with classic art, its predecessors, and its part in later developments in the art of Europe. First semester: Pre-Christian art; Second semester: Early Christian and Byzantine art, including some study of the classic tradition in the mediæval art of Italy.

Open to freshmen, sophomores, and juniors. No prerequisites. Three hours a week for a year. First Semester, MRS. HAWES, MISS ABBOT. Second Semester, MISS DER NERSESSIAN, MISS ABBOT.

[5]Absent on leave for the second semester.
[6]Appointed for the first semester only.
[7]Appointed for the second semester only.

205. SECOND YEAR INTRODUCTORY COURSE IN THE HISTORY OF ART. First Semester: Mediæval art with emphasis on Romanesque and Gothic architecture. Second Semester: Renaissance and later art, with emphasis on Italian painting.

Open to students who have completed course 101. Three hours a week for a year. First Semester, MISS AVERY, MISS HAMILTON, MISS ALBIN. Second Semester, MRS. DARBY, MISS HAMILTON.

303. PAINTING OF THE ITALIAN RENAISSANCE. A study of the schools of Italian painting from the Tuscan beginnings through the High Renaissance in Venice, taking into account certain relations with the contemporary painting of the North.

Open to students who have completed course 205. Three hours a week for a year. MRS. DARBY.

304. HISTORY OF RENAISSANCE ARCHITECTURE. This course centers in a critical study of the works of representative architects of the Italian Renaissance. It traces the development of French Renaissance architecture, discriminating between the Italian and native elements.

Open to juniors and seniors who have completed or are taking course 205. Three hours a week for the year. MRS. ROGERS.

305. MODERN PAINTING. (Not offered in 1929-30.) A brief analytical review of the Renaissance, Baroque, and Rococo will form an introduction to the neo-classic and romantic movements of the late eighteenth century. David, Goya, Blake, Delacroix, Daumier, Constable, Corot, Courbet, Manet, Cézanne, Renoir, Seurat, Van Gogh, Gauguin, will be emphasized. Twentieth century movements from cubism to sur-réalisme will conclude the course.

Open to students who have completed course 303. Three hours a week for the second semester.

307. STUDIES IN MEDIÆVAL ART. Problems in style and iconography, with opportunities for independent work. The primary purpose of the course is to train students in methods for further study.

Open to students who have completed a year course of grade III, and to seniors who are taking a course of grade III. Three hours a week for the second semester. MISS AVERY.

308. CLASSICAL ART. Study of Greek art and culture in the age of Pericles. Research problems.

Open to students who have completed course 205 and to juniors and seniors who have taken course 101 and one course in Greek in college. Three hours a week for the first semester. MRS. HAWES.

309. HISTORY OF GEORGIAN AND COLONIAL ARCHITECTURE. The aim is to study English architecture from the Tudor period through the Georgian, and show the elements that entered into the design and details of Colonial architecture in America.

Open to seniors who have taken or are taking course 304. Three hours a week for the second semester. MRS. ROGERS.

310. HISTORY OF MEDIÆVAL AND RENAISSANCE SCULPTURE. (Not offered in 1929-30.)

Open to students who have completed course 205. Three hours a week for a year. MISS AVERY.

311. PAINTING AND GRAPHIC ARTS OF NORTHERN EUROPE. (Not offered in 1929-30.) The period of study extends from about 1300 to 1600 in France, Germany, and the Low Countries, and will include the seventeenth century in Flanders and Holland. Facsimiles of drawings and etchings supplement photographs of painting. Special emphasis will be laid on Roger van der Weyden, Dürer, Bruegel, and Rembrandt.

Open to students who have taken or are taking a course of grade III. Three hours a week for the first semester.

312. SPANISH ART. This course traces the development of mediæval and Renaissance art in Spain from the Visigothic period to the death of Velasquez.

Open to students who have completed course 205. Three hours a week for the first semester. MRS. DARBY.

313. PAINTING OF THE SEVENTEENTH CENTURY IN WESTERN EUROPE. Emphasis will be laid upon baroque painting, its origins in the High Renaissance, and its evolution in Italy, Spain and the North. Considerations of the sculpture of the period will be included.

Open to students who have completed course 303 and, by permission of the department, to seniors who are taking course 303. Three hours a week for the first semester. MRS. DARBY.

314. BYZANTINE ART. Mosaics and paintings of Byzantine churches from the sixth to the fourteenth century. Studies in style and iconography.

Open to juniors and seniors who have completed course 205 or course 308. Three hours a week for the second semester.

MISS DER NERSESSIAN.

203. OUTLINE COURSE IN THE HISTORY OF ART. This course furnishes an outline of the development of styles in architecture, sculpture, and

painting, emphasizing Greek sculpture, French Mediæval architecture and Italian Renaissance painting. It aims to develop observation and æsthetic appreciation as well as to relate important monuments to their contemporary civilization.

Open only to seniors who have taken no other course in the department. No prerequisites. Three hours a week for a year. MISS AVERY.

Studio Courses

The studio work is arranged solely to develop those qualities of observation and appreciation which are necessary to the critical study of the history of art.

103. STUDIO PRACTICE. Modeling, drawing, sketching, and painting (oil and water color).

This course may count toward the degree after one full course in the History of Art has been completed. Open to sophomores, juniors and seniors. No prerequisites. Three hours a week (nine hours of studio practice) for a year. MISS BROWN, MISS ABBOT, MISS HAMILTON.

204. STUDIO PRACTICE. Design.

This course may count toward the degree after two full courses in the History of Art have been completed. Open, by permission of the department, to juniors and seniors who have completed course 103. Three hours a week (nine hours of studio practice) for the first semester.

MISS ABBOT.

Museum Training Course

This course is described in a separate circular. Various officers of the Art Museum and of the Department of Art constitute its faculty.

ASTRONOMY

PROFESSOR: JOHN CHARLES DUNCAN, PH.D. (CHAIRMAN.)
INSTRUCTOR: HELEN FARNAM STORY, M.A.
CUSTODIAN: KATHARINE BULLARD DUNCAN.

101. DESCRIPTIVE ASTRONOMY. A general survey of the facts of Astronomy, of the methods by which they are obtained and of the theories that account for them; facts with which every educated person should be familiar if only to understand the astronomical allusions

occurring in literature and to be alive to the beauty of the order that is about us.

Open to all undergraduates. Two lecture appointments, one two-period laboratory appointment, and an average of one hour of evening observations, with an additional lecture appointment at certain seasons, counting three hours a week for a year. MR. DUNCAN, MISS STORY.

201. ADVANCED GENERAL ASTRONOMY. (Not offered in 1929-30.) This course and course 205 will take up in greater detail many of the topics which are treated in a general way in course 101, and will treat other topics as well. It is intended to meet the requirements of students who, though not specializing in Astronomy, are not satisfied with the knowledge of the subject that can be obtained from a single course. Original memoirs will be consulted and the telescopes used.

Open to students who have completed course 101. Three hours a week for the first semester.

205. ADVANCED GENERAL ASTRONOMY. (Not offered in 1929-30.) A continuation of course 201.

Open to students who have completed course 101. Three hours a week for the second semester.

202. PRACTICAL ASTRONOMY. Determination of time with the transit instrument; determination of longitude by moon culminations and radio time-signals.

Open to students who have completed Trigonometry and course 101. Three hours a week for the second semester. MR. DUNCAN, MISS STORY.

204. PRACTICAL ASTRONOMY. (Not offered in 1929-30.) Transformation of co-ordinates; use of the method of least squares; reduction from mean to apparent place; determination of latitude with the zenith telescope.

Open to students who have completed courses 101 and 202. Three hours a week for the second semester.

203. OBSERVATORY PRACTICE. (Not given in 1929-30.) Use of the observatory equipment in work not covered by courses 202 and 204. The specific subjects will vary from year to year with such changing conditions as the configuration of the planets, the appearance of new stars and comets, the occurrence of eclipses, etc. The course may be taken repeatedly.

Open to students who have completed course 101. One hour a week for a year; by special permission, additional credit up to three hours

may be given for additional work. The amount of work contemplated must be indicated at the time of handing in electives. The consent of the instructor must be obtained before election.

MR. DUNCAN, MISS STORY.

206. THE HISTORY OF ASTRONOMY. Development of the science from ancient times to the present, with special emphasis on the period since Copernicus. Recitations and reports by students.

Open to students who have completed course 101. Three hours a week for the first semester. MR. DUNCAN.

301. ASTROPHYSICS AND STELLAR ASTRONOMY. Astronomical spectroscopy, photography, and photometry. The laws of radiation. Solar and sidereal physics. Stellar motions. The constitution of stars.

Open to students who have completed Astronomy 101 and Physics 301. Three hours a week for the second semester. When combined with Physics 301 it may be counted toward a major in Astronomy or Physics.

MR. DUNCAN.

302. DETERMINATION OF ORBITS. (Not offered in 1929-30.) Determination, from three observations, of the elliptic and parabolic orbits of bodies in the solar system. Orbits of visual and spectroscopic binary stars. Theory and practice.

Open to students who have completed Astronomy 101 and a year of Calculus. Three hours a week for a year. MR. DUNCAN.

303. CELESTIAL MECHANICS. (Not offered in 1929-30.) The attraction of bodies of various forms under Newton's law of gravitation. The problems of two and of three bodies. Perturbations.

Open to students who have completed Differential and Integral Calculus. Three hours a week for a year. MR. DUNCAN

304. ASTRONOMICAL SEMINAR. (Not given in 1929-30.) The specific subject will be determined by the interests and capabilities of the individual students.

Open to graduate students only. Ordinarily, three hours a week for a year. MR. DUNCAN.

BIBLICAL HISTORY, LITERATURE, AND INTERPRETATION

PROFESSORS: ELIZA HALL KENDRICK, PH.D. (CHAIRMAN.)
OLIVE DUTCHER, M.A., B.D.
ASSOCIATE PROFESSORS: MURIEL STREIBERT CURTIS, B.A., B.D.
LOUISE PETTIBONE SMITH[2], PH.D.
SEAL THOMPSON, M.A.
GORDON BOIT WELLMAN, TH.D.
ASSISTANT PROFESSORS: MOSES BAILEY, S.T.M., PH.D.
KATY BOYD GEORGE, M.A.
INSTRUCTOR: KATHARINE LOUISE MCELROY, B.LITT. OXON., B.D.
ASSISTANT: BLANCHE ELEANOR STREET, B.A.

The requirement in Biblical History for a degree is met by courses 101 and 102, followed by either course 202 or 205; or may be met by course 103.

101.102. THE DEVELOPMENT OF THOUGHT IN THE OLD TESTAMENT. It is the purpose of this course to offer studies in the development of religion and ethics in the Old Testament. There will be included such historical study of Hebrew national life and such presentation of the literary problems connected with the Old Testament writings as are necessary to make intelligible the development of thought.

Required of sophomores. Course 101, three hours first semester, to be followed by course 102, three hours second semester. Course 101 will be given in the second semester for students required to take English Composition 102; open to others only by permission of the department. Course 102 will be given in the first semester for those obliged to take course 101 in the second semester.

MISS DUTCHER, MRS. CURTIS, MR. BAILEY, MISS GEORGE, MISS MCELROY.

103. BIBLICAL HISTORY: THE OLD TESTAMENT AND THE SYNOPTIC GOSPELS. The period of history reviewed in this course is the same as that covered in courses 101-102 and 202. Those completing it will be considered to have fulfilled the requirement for the degree.

Open to sophomores who have met the one unit admission requirement in Biblical History or to those who pass an examination on the contents of the Old Testament and the Synoptic Gospels. Three hours a week for a year. MR. BAILEY.

202. THE LIFE OF CHRIST. The aim of this course will be (1) to study the environment of Christ in the government, institutions, manner of life, ideals, and literature of the Jewish people of his time; (2) to follow the unfolding of his life from the historical point of view; (3) to study the teachings of Christ: (*a*) in their historical connections as far as possible; (*b*) topically; (4) to become acquainted with the leading

[2]Absent on Sabbatical leave.

problems regarding the person and work of Christ, with different points of view and with the best literature on the subject.

Open to students who have completed courses 101 and 102. Three hours a week either semester.

MRS. CURTIS, MISS THOMPSON, MR. WELLMAN.

203. ELEMENTARY HEBREW. The elements of Hebrew grammar, with practice in translation and the memorizing of a vocabulary. Reading of selections from the Old Testament. At the end of the course the student should be able to read simple Hebrew and to use the language in the study of the Old Testament.

Open to juniors and seniors. Three hours a week for a year.

MR. BAILEY.

204. THE APOSTOLIC AGE. It is the purpose of this course to offer studies in the essential teachings of Christianity as represented by the several New Testament writers outside of the authors of the Synoptic Gospels. There will be included such historical study of New Testament times and such presentation of the questions connected with New Testament Introduction as are necessary to make intelligible the development of Christian thought.

Open to students who have completed course 202. Three hours a week for the second semester. MISS THOMPSON, MR. WELLMAN.

205. GREEK TESTAMENT. TEXT STUDY OF THE SYNOPTIC GOSPELS.

Open to students who have completed courses 101 and 102, and who present three units in Greek for admission or have taken Greek 101 in college. Three hours a week for the first semester. MISS KENDRICK.

206. GREEK TESTAMENT. TEXT STUDY OF OTHER NEW TESTAMENT BOOKS.

Open to students who have completed course 205. Three hours a week for the second semester. MISS KENDRICK.

207. HISTORY OF RELIGIONS. The aim of this course is to study the history of religions from the earliest historical period through the leading religions of today. The approach is from the historical standpoint and includes a study of comparative developments and values. Readings, discussions, special topics and short papers.

Open to seniors. Three hours a week for a year. MR. WELLMAN.

301. SEMINAR IN HISTORY OF RELIGION. This study consists of readings and discussions in the history of religions. Each student will be expected to investigate and study some particular historical problem. Emphasis will be laid upon the historical method of study as well as upon

an understanding of the characteristic development of the religion under attention.

Open to approved seniors who have completed six hours in Biblical History. Three hours a week for a year. MR. WELLMAN.

302. INTERPRETATIONS OF CHRISTIANITY. The aim of this course will be to trace in the devotional and controversial literature of certain of the most important periods of the Christian Church, from the beginning to the present day, varying conceptions of the essentials of Christianity, to consider the effect upon these conceptions of some of the most important currents of thought of the period studied and to make constant comparison with New Testament religion.

Open to seniors. Three hours a week for a year. MISS KENDRICK.

303. SECOND YEAR HEBREW.

Open to students who have completed course 203. Three hours a week for a year. MR. BAILEY.

BOTANY

PROFESSORS: MARGARET CLAY FERGUSON, PH.D. (CHAIRMAN.)
HOWARD EDWARD PULLING, PH.D.
ASSOCIATE PROFESSORS: LAETITIA MORRIS SNOW, PH.D.
MARY CAMPBELL BLISS, PH.D.
ALICE MARIA OTTLEY, PH.D.
ASSISTANT PROFESSORS: HELEN ISABEL DAVIS, B.A.
MARY LOUISE SAWYER, PH.D.
GRACE ELIZABETH HOWARD, PH.D.
RUTH HUTCHINSON LINDSAY, PH.D.
INSTRUCTOR: HELEN STILLWELL THOMAS, M.A.
ASSISTANT: LOUISE DELABARRE HUNTER, B.A.
LABORATORY ASSISTANTS: KATHERINE LOUISE BRUCE, B.A.
FRANCES LOUISE JEWETT, B.A.
PRISCILLA PRESBREY, B.A.
ELIZABETH UNGER MCCRACKEN, B.A.
BARBARA HUNT, B.S.
ASSISTANT CURATOR OF MUSEUM: MARJORIE WILLIAMS STONE, B.A.
SECRETARY AND CUSTODIAN: WINIFRED HESSELMAN, B.A.

101. GENERAL BOTANY. This course aims to bring the student into intelligent sympathy with the world of living things, to cultivate the powers of observation and constructive thinking, to teach the fundamental facts of plant life, reproduction and evolution, to give such a knowledge of the cell as is essential to an understanding of the universal laws of heredity and their application. Students are trained to recognize our common trees and shrubs in their winter and in their summer aspects and to know various herbaceous plants both in and out of flower.

Open to all undergraduates. Six periods a week, in general, two of lecture and recitation and four of laboratory or greenhouse or field, counting three hours a week for a year.

MISS FERGUSON, MISS BLISS, MISS SAWYER, MISS HOWARD, MISS LINDSAY, MISS THOMAS.

202. ELEMENTARY PHYSIOLOGY. A study of the ways in which plants have solved the problem of existence in changing surroundings. Structures and activities are considered in relation to each other and to the plant as a whole with the purpose of building a conception of the way in which the dissimilar functions of nutrition, growth, etc., become parts of the unified process of living.

Open to students who have completed course 101 or its equivalent and to juniors and seniors without prerequisite. Six periods a week, in general, two of lecture and four of discussion and laboratory, counting three hours a week for a semester; offered in both semesters.

MR. PULLING.

204. CULTIVATED PLANTS. A study of garden plants—their identification, form, texture, color and seasonal effects; their natural associations and distribution; their cultural requirements as to soil, moisture, light and heat; the various methods of growing these plants from seeds, divisions, cuttings, grafts, etc.; the means of protecting them against pests and diseases. Lectures summarizing the principles underlying these subjects are supplemented by field trips and practical laboratory work in gardens and greenhouses.

Open to students who have completed course 101 or its equivalent. Six periods a week, in general, two of lecture and four of discussion and laboratory or greenhouse or field, counting three hours a week for a semester; offered in both semesters. MISS DAVIS, MISS HUNTER.

205. BACTERIA IN RELATION TO DAILY LIFE. A brief survey of the field of microbiology. Emphasis is placed upon the study of bacteria, molds, and yeasts in the home, with special reference to the preservation of foods, the care of the sick-room, and to general household sanitation. A less detailed study is made of the larger problems of micro-organisms in relation to agriculture and certain other industries, and to disease and public health. There will be one visit to a Board of Health.

Open to students who have completed one year of either Botany, Chemistry or Zoology. Three periods a week, in general, one of lecture and discussion, and two of laboratory or preparation, counting one hour a week for a year; no outside work is required. MISS SNOW.

206. THE STRUCTURE OF PLANTS. A study of the origin and differentiation of the structural elements of the plant body in seed-bearing plants, including micro-chemical tests of the cell-wall membranes of the young and mature cells. An interesting feature of the course is a microscopic study of various types of coal showing the nature and structure of those plant parts which have been preserved in this form. Practice

is given in preparing woody tissues for sectioning and in making permanent microscopic mounts.

Open to students who have completed course 101 or its equivalent, and to juniors and seniors without prerequisite. Six periods a week, in general, two of lecture and recitation and four of laboratory, counting three hours a week for a semester; offered in both semesters. MISS BLISS.

302. COMPARATIVE MORPHOLOGY OF THE FERNS, GYMNOSPERMS, AND ANGIOSPERMS. (Not given in 1929-30.) This course considers the origin, development, and structure of vascular plants from the standpoint of evolution. It aims to give that broad grasp of the progressive development of plant life on the earth essential to the highest efficiency in teaching botany and to give adequate equipment for independent research in the comparative morphology of plants. Students are given practical training in histological and embryological technique by the preparation of many of the microscopic slides which they use.

Open to juniors and seniors who have completed three year-hours of grade II. Six periods a week, in general, three of lecture and discussion and three of laboratory, counting three hours a week for the first semester. MISS SAWYER.

304. PATHOLOGY OF THE HIGHER PLANTS. (Not given in 1929-30.) A general course on the diseases of plants. The structure, pathological processes and effects of representative fungi on plants of either economic or ornamental value are studied. A short time is devoted to a study of the methods used in cultivating fungi. Modern methods of combating plant diseases are briefly considered from the standpoint of the principles that underlie them.

Open to juniors and seniors who have completed three year-hours of grade II. Six periods a week, in general, two of lecture and discussion and four of laboratory and field, counting three hours a week for the second semester. MISS HOWARD.

305. ECOLOGY. (Not offered in 1929-30.)

306. PHYSIOLOGY. Experiments, lectures, discussions, and readings designed to acquaint the student with the higher plants as working organisms. The experiments embody problems in, to a greater extent than demonstrations of, the fundamental activities of the higher plants in relation to their environment. It is planned that increased precision in laboratory manipulation shall keep pace with the student's growing knowledge of physiological methods.

Open to juniors and seniors who have completed six year-hours of Botany in college and who have completed or are taking a year of either

Chemistry or Physics. Six periods a week, in general, two of lecture and four of discussion and laboratory, counting three hours a week for a year. MR. PULLING.

307. CYTOLOGY AND HEREDITY. Studies in the structure of the cell; the phenomena of cell division; the constitution of the reproductive cells with special reference to the theories of heredity and evolution. The classroom study of the problems of the transmission of characters from parent to offspring is supplemented by experimental studies, conducted by the students in the greenhouse, in the inheritance of color in Petunia. At the beginning of the year each student is assigned a practical problem in plant breeding.

Open to juniors and seniors who have completed six year-hours of Botany in college. Six periods a week, in general, two of lecture and discussion and four of laboratory or greenhouse, counting three hours a week for a year. MISS FERGUSON, MISS LINDSAY.

308. GENERAL BACTERIOLOGY. The work of the first semester is designed to give the student a knowledge of the morphology and activities of bacteria. Emphasis is laid upon the principles underlying fermentation, preservation of foods, methods of sterilization, antiseptics, soil fertility, etc. The student becomes familiar with methods of making media, plating, making of transfers, staining, etc. This technique will be used during the second semester in the study of selected problems, such as the milk and water supplies, sewage disposal and disease.

Open to juniors and seniors who have completed one year of Chemistry and either one year of Botany or Zoology, or a second year of Chemistry. Six periods a week, in general, two of lecture and discussion and four of laboratory, counting three hours a week for a year. MISS SNOW.

309. LANDSCAPE GARDENING. This course continues the study of ornamental plants, placing special emphasis upon their use in landscape gardening. The great historical styles in garden design, and the fundamental principles governing art are studied as a basis for the appreciation of modern landscape architecture. The laboratory practice gives training in methods of developing the landscape plan as adapted to the small estate. This course is intended primarily to give an intelligent appreciation of landscape gardening as a fine art.

Open to seniors who have completed three year-hours of grade II, including course 204. By special permission course 204 may be taken in conjunction with course 309. Six periods a week, in general, two of lecture and four of discussion and laboratory or field, counting three hours a week for the first semester. MISS DAVIS.

310. LANDSCAPE DESIGN. This course continues the study of principles introduced in course 309, but lays more emphasis upon specific

methods of carrying out these principles with landscape materials. A summary of the fundamentals of good construction is also included. Trips are taken as often as possible for observation and study of actual examples of the art.

Open to students who have completed course 309. Six periods a week, in general, two of lecture and four of discussion and laboratory, counting three hours a week for the second semester. MISS DAVIS.

311. WORLD FLORAS—THE DISTRIBUTION AND IDENTIFICATION OF PLANTS. This course seeks to give the student a knowledge of continental floras and of the factors which have been and are operative in determining the present distribution of plants. The principles underlying the natural classification and relationships of the great phyla and of the families within the phyla will be considered in connection with a study of the historical development of taxonomy from the earliest herbalists to the present day.

Open to students who have completed three year-hours of grade II, and, by permission of the department, to seniors who have completed course 101 or its equivalent. Six periods a week, devoted largely to laboratory, greenhouse, and field studies, lectures and discussions as desirable, counting three hours a week for a year.

MISS OTTLEY, MISS HOWARD.

320. THEORETICAL PHYSIOLOGY. The content of this course in any year depends upon the needs and interests of the students that elect it. The reading and discussions are concerned with the abstract and logical aspects of the subject; the methods by which research problems should be analyzed, the significance of explicit and implicit assumptions, the treatment of data, physiology as a field for inductive reasoning, etc.

Open to graduate students only. Three hours a week for a year.

MR. PULLING.

322. BOTANICAL SEMINARS. The work in the seminars listed below varies from year to year, depending on the botanical background of each student and on her plan for further study. In all cases a field of botanical science is scrutinized not so much from the standpoint of modern achievement as from that of method of investigation and the theories and reasoning involved in reaching the present day conclusions. a. Anatomy. b. Bacteriology. c. Comparative Morphology. d. Cytology. e. Ecology. f. Genetics. g. Geographical Distribution. h. History of Botany. i. Pathology. j. Physiology. k. Plant Materials. l. Taxonomy.

Open to graduate students only. Three or six hours a week for a year.

THE TEACHING STAFF.

323. RESEARCH. In consultation with the department a problem in some branch of plant science is chosen by the student, but during a given year no two students will have under consideration the same problem. This involves independent investigation under the direction of the instructor in the field chosen.

Open to graduate students and, by permission of the department, to approved seniors. Three or six hours a week for a year.

THE TEACHING STAFF.

CHEMISTRY

PROFESSOR: HELEN SOMERSBY FRENCH, PH.D. (CHAIRMAN.)
ASSOCIATE PROFESSORS: CHARLOTTE ALMIRA BRAGG[2], B.S.
MARY AMERMAN GRIGGS, PH.D.
RUTH JOHNSTIN, PH.D.
ASSISTANT PROFESSOR: HELEN THAYER JONES, PH.D.
INSTRUCTOR: MARION ELSIE MACLEAN, M.A.
LABORATORY ASSISTANTS: EUNICE COOKE, B.A.
ADELA MERRELL PRENTISS, B.A.
CUSTODIAN: EMILY MAY HOPKINS, B.S.

101. ELEMENTARY CHEMISTRY. LECTURES AND LABORATORY WORK. This course is for beginners in Chemistry and is planned to give the fundamental laws and theories of Chemistry, in connection with the study of the non-metals and a brief survey of the metals. Outside reading and reports thereon bring the student some knowledge of the applications of Chemistry.

Open to students who do not present Chemistry for admission. Three periods of lecture and recitation and one three-period laboratory appointment a week, counting three hours a week for a year.

MISS JOHNSTIN, MISS JONES, MRS. PRENTISS.

102. GENERAL CHEMISTRY. This course is intended for those students who have offered Chemistry for entrance, and who plan to major in Chemistry in college. It aims to give a brief intensive review of the preparatory work in Chemistry, with such additional study, particularly of the metallic elements and the theories of solutions, as shall prepare the students for the grade II courses in the department.

Open to students who have completed the admission requirement or its equivalent, and who are electing course 201 or 206. Three periods of lecture and recitation and one three-period laboratory appointment a week, counting three hours a week for the first semester.

MISS FRENCH, MISS COOKE.

201. QUALITATIVE ANALYSIS. A system of analysis for the detection of the common metals and acid radicals with the application of theoretical

[2]Absent on Sabbatical leave.

principles to the reactions involved. The laboratory work includes practice in the solution and analysis of substances unknown to the student.

Open to students who have completed course 101 or 102. Two periods of lecture and six periods of laboratory a week, counting three hours a week for a semester. Offered in both semesters. MISS MACLEAN.

202. QUANTITATIVE ANALYSIS. This course is designed to give training in gravimetric and volumetric analysis. The theories discussed in course 201 are applied to the work of the laboratory, and problems related to the work are included in the class discussions.

Open to students who have completed course 201. One period of lecture and six periods of laboratory a week, counting three hours a week for a semester. Offered in both semesters. MISS GRIGGS.

205. QUANTITATIVE ANALYSIS. (Not given in 1929-30.) A continuation of course 202.

Open to students who have completed course 202. One period of lecture and six periods of laboratory a week, counting three hours a week for the second semester. MISS GRIGGS.

206. INORGANIC CHEMISTRY. This course is intended to follow and supplement course 102. Further study of the underlying principles will be made in the course of a discussion of the metals as to their occurrence, metallurgy, properties, and uses. Outside reading will be a part of the course. The laboratory work will consist in the main of inorganic preparations, including the purification of the substances, and the calculation of actual and theoretical yields. A wide range of problems will be discussed.

Open to students who have completed course 102. Three periods of lecture and recitation and one three-period laboratory appointment a week, counting three hours a week for the second semester.
MISS MACLEAN.

301. ORGANIC CHEMISTRY, WITH LABORATORY WORK IN ORGANIC PREPARATIONS.

Open to students who have completed course 102 with course 201 or 206, and, by special permission, to students who have completed course 101. Three periods of lecture and recitation and one three-period laboratory appointment a week, counting three hours a week for a year.
MISS FRENCH, MISS COOKE.

302. ADVANCED LABORATORY COURSE IN ORGANIC CHEMISTRY. This course includes a scheme of systematic qualitative organic analysis, the quantitative determination of carbon, hydrogen, and nitrogen; the last

six weeks will be devoted by each student to an individual problem in the laboratory, leading to a final paper.

Open to juniors and seniors who have completed courses 202 and 301. Two periods of lecture and recitation, six to seven periods of laboratory a week, counting three hours a week for the second semester.

MISS FRENCH.

303. QUANTITATIVE ANALYSIS. (Not given in 1929-30.) This course includes the complete quantitative analysis of some more complex inorganic substances.

Open to juniors and seniors who have completed courses 201 and 202. Two periods of lecture and recitation and six periods of laboratory a week, counting three hours a week for the first semester. MISS GRIGGS.

304. FOOD CHEMISTRY. A study of the composition of common food materials and their function in nutrition. Laboratory practice is given in standard methods of analysis of foods including grain products, carbohydrates, fats and oils, milk and milk products.

Open to juniors and seniors who have completed course 202 and who have completed or are taking course 301. Two periods of lecture and recitation and five of laboratory a week, counting three hours a week for the first semester. MISS JOHNSTIN.

305. THEORETICAL AND PHYSICAL CHEMISTRY. This course aims to review and trace historically the principal generalizations, laws, and theories, which have marked the progress of Chemistry during the last century. It attempts to bring together in a systematic way much that has been taken up in preceding courses, and to touch upon the modern work in the line of Physical Chemistry.

Open to juniors and seniors who have completed course 202, and have completed or are taking course 301 and have completed or are taking a year of college Physics. Three periods of lecture and discussion a week, with approximately one three-period laboratory appointment each alternate week, counting three hours a week for the first semester.

MISS FRENCH.

306. LABORATORY WORK IN PHYSICAL CHEMISTRY.

Open to seniors and graduates who have completed or are taking course 305. One or two periods of lecture and seven or six of laboratory a week, counting three hours a week for the second semester.

MISS GRIGGS.

307. INORGANIC CHEMISTRY. This course makes use of the laboratory work of the courses taken in preceding years.

Open to juniors and seniors who have completed courses 202 and 301. Three hours a week for the second semester. MISS JONES.

308. QUALITATIVE ANALYSIS. A continuation of course 201, dealing with the more difficult problems of qualitative analysis. The course includes the systematic detection of acid radicals, and the complete analysis of unknown substances.

Open to juniors and seniors who have completed courses 201 and 202. One period of lecture and six of laboratory a week, counting three hours a week for the second semester. MISS MACLEAN.

309. PHYSIOLOGICAL CHEMISTRY. A study of the chemistry of the more important organs and tissues of the body and of the chemical changes involved in the digestion, assimilation and elimination of food constituents. The laboratory work includes the study of the chemical reactions of proteins, fats, and carbohydrates of biological significance, and of the action of the digestive enzymes on these compounds.

Open to juniors and seniors who have completed course 202 and who have completed or are taking course 301. Two periods of lecture and recitation and five of laboratory a week, counting three hours a week for the second semester. MISS JOHNSTIN.

350. INDIVIDUAL PROBLEMS. Each student electing this work will undertake an individual problem under the direction of the member of the teaching staff of the Chemistry Department, in whose field the student's chosen problem falls. The work will include both laboratory work and reading.

Open to graduate students and, by permission of the department, to undergraduates who have completed at least nine hours in the department. Three hours for a semester or for a year.

ECONOMICS AND SOCIOLOGY

PROFESSOR: ELIZABETH DONNAN, B.A. (CHAIRMAN.)
ASSISTANT PROFESSORS: LAWRENCE SMITH, M.A.
EMILY CLARK BROWN, PH.D.
LUCY WINSOR KILLOUGH, PH.D.
LECTURER: VERVON ORVAL WATTS, M.A.
INSTRUCTOR: MARY BOSWORTH TREUDLEY, PH.D.
ASSISTANT: CLARICE JANETTE WEEDEN, B.A.

101. INTRODUCTION TO ECONOMICS AND SOCIOLOGY. A study of the outstanding features of present industrial society together with an examination of the economic and social problems involved in the present distribution of wealth, and of methods and programmes for dealing with such problems.

Open to sophomores, juniors and seniors. This course is prerequisite to later election. Three hours a week for a year.

MISS DONNAN, MR. SMITH, MISS BROWN,
MRS. KILLOUGH, MISS TREUDLEY.

202. SOCIAL ORIGINS. This course examines the question of social origins, and undertakes a study of primitive and early institutions, notably those developing out of religion, the family, and property.

Open to juniors and seniors who have completed or are taking course 101. Three hours a week for the first semester. MR. WATTS.

205. MODERN SOCIAL INSTITUTIONS. This course attempts a comparative study of the social functions and value of institutions in various types of modern culture. Among institutions examined will be the church, the family, and private property.

Open to juniors and seniors who have completed course 202. Three hours a week for the second semester. MR. WATTS.

209. ECONOMIC HISTORY OF ENGLAND. This course includes a survey of the chief stages in English economic history, but especial attention is devoted to the period since the industrial revolution.

Open to students who have completed or are taking course 101. Three hours a week for the first semester. MISS DONNAN.

204. ECONOMIC HISTORY OF THE UNITED STATES. A study of our national development in its economic and social aspects, with special emphasis upon the westward movement, the struggle between agrarian and business interests, and the growth of business combinations.

Open to students who have completed or are taking course 101. Three hours a week for the second semester. MISS DONNAN.

210. FINANCIAL ORGANIZATION OF SOCIETY. This course deals with money, credit, and prices. It emphasizes the commercial bank and the development of our banking system, culminating in the Federal Reserve system. Investment credit is studied with respect to the investment bank, corporation securities, the corporation as a financial institution, and the stock exchange. The business cycle is dealt with both historically and theoretically. Current financial topics such as the stabilization of European currencies and German reparations are studied.

Open to students who have completed course 101. Three hours a week for a year. MR. SMITH.

308. THE MODERN LABOR MOVEMENT. A study of the contemporary labor situation with special reference to labor organizations.

Open to juniors and seniors who have completed or are taking three hours of grade II in the department. Three hours a week for the first semester. MISS BROWN.

301. SOCIALISM AND SOCIAL REFORM. A critical study of socialistic theory in its relations to the labor movement and contemporary problems of social reform.

Open to juniors and seniors who have completed course 308. Three hours a week for the second semester. MISS BROWN.

320. POPULATION PROBLEMS. A study of population theories from Malthus to the present time, and of practical problems arising out of the increase, the distribution, and the movement of population, such as city congestion, rural depopulation, and adjustments made necessary by immigration.

Open to juniors and seniors who have completed or are taking course 202, and any other course of grade II in the department. Three hours a week for the first semester. MISS TREUDLEY.

303. SOCIAL ECONOMICS. A study of the social and economic causes and characteristics of poverty, and legislative and philanthropic methods of dealing with it.

Open to students who have completed or are taking course 202 and any other course of grade II in the department. Three hours a week for the second semester. MISS TREUDLEY.

310. PUBLIC FINANCE. A study of the principles underlying public expenditures, borrowing, and taxation.

Open to juniors and seniors who have completed or are taking course 210. Three hours a week for the first semester. MRS. KILLOUGH.

314. INTERNATIONAL TRADE AND INVESTMENT. The principles of international trade in their present application to the United States.

Open to juniors and seniors who have completed or are taking course 210. Three hours a week for the second semester. MRS. KILLOUGH.

305. RAILROADS AND TRUSTS. (Not offered in 1929-30.) A survey of some of the economic and social problems arising in connection with our modern industrial development and means of transportation, with emphasis on the monopoly problem.

Open to juniors and seniors who have completed or are taking course 210. Three hours a week for the second semester. MRS. KILLOUGH.

317. HISTORY OF ECONOMIC THOUGHT. A study of the development of economic thought, with special emphasis on the relations between economic conditions and economic thinking in the nineteenth century.

Open to seniors who have completed a course of grade II in the department. Three hours a week for the first semester. MISS DONNAN.

318. MODERN ECONOMIC THOUGHT. A study of recent economic doctrine with special emphasis on those aspects which diverge from nineteenth-century theory, and some attention to the relation of economic science to other social sciences.

Open to seniors who have completed course 317. Three hours a week for the second semester. MISS DONNAN.

316. HISTORY OF SOCIAL THOUGHT. This course attempts to acquaint students with the nature of the contributions to social philosophy made by such writers as Plato, Aristotle, Machiavelli, Hobbes, Montesquieu, Comte, J. S. Mill, Darwin, Spencer and Sumner.

Open to seniors who have completed or are taking course 202 and any other course of grade II in the department. Three hours a week for the first semester. MR. WATTS.

319. AMERICAN SOCIAL IDEAS. An examination of social theories which have been or are potent factors in American life: The democratic idea; the egalitarian theories of the eighteen century; the nineteenth-century application of Jeffersonian principles, and the complexion of democracy in the twentieth century.

Open to students who have completed or are taking course 202 and any other course of grade II in the department. Three hours a week for the second semester. MR. WATTS.

311. SOCIAL AND ECONOMIC INVESTIGATION. The primary object of this course is to acquaint the student with the materials and methods used in the statistical investigation of social and economic problems. Some attention is devoted to the point of view and methods of investigation of the English classical economists and the German historical school. In the laboratory, practice is given in the collection, presentation and analysis of statistical data.

Open to juniors and seniors who have completed or are taking a course of grade II in the department and Mathematics 102, 104, 105, 106, or 107. Three periods of lecture and recitation and one three-period laboratory appointment a week, counting three hours a week for a year.
MRS. KILLOUGH.

313. SEMINAR: SELECTED TOPICS IN THE HISTORY OF AMERICAN ECONOMIC AND SOCIAL MOVEMENTS AND THEORIES.

Open to graduates and approved seniors who are taking a major in the department. Three hours a week for the second semester.
MISS DONNAN.

350. DIRECTED READING. To a limited number of advanced students wishing to do individual work outside of regular courses the department

is prepared to offer a course of directed reading, to be tested by examination.

Students desiring to register for such a course must secure the approval of the Chairman of the department in advance of the time at which electives are due. Three hours a week for a year.

EDUCATION

PROFESSORS: ARTHUR ORLO NORTON, M.A. (CHAIRMAN.)
ANNA JANE MCKEAG, PH.D., LL.D.
ASSISTANT PROFESSOR: DOROTHY WARNER DENNIS, B.A., DIPL. E.U.
ASSISTANT PROFESSOR OF FRENCH
LECTURERS: MATILDA REMY, B.S. IN ED.
ABIGAIL ADAMS ELIOT, B.A., ED.M.
EARL BOWMAN MARLATT[1], B.A., S.T.B.
ASSISTANTS: GRACE ALLERTON ANDREWS, M.A.
MILDRED NUTTER FROST, M.A.
ALICE BURT NICHOLS, ED.M.

ANNE L. PAGE MEMORIAL

DIRECTOR: MATILDA REMY, B.S. IN ED.
KINDERGARTNER: NETTIE MARIE CONANT
FIRST GRADE: SARAH BOWERS WILSON

WELLESLEY NURSERY SCHOOL

DIRECTOR: PAULINE HOADLEY, B.A.

The Department of Education offers both undergraduate and graduate courses. Six hours of work may be counted toward the B.A. degree. Full work for the M.A. degree is offered.

201. MODERN EDUCATION: A STUDY OF THE PRINCIPLES OF EDUCATION, AND OF THE APPLICATIONS OF PSYCHOLOGY TO EDUCATION. This course is organized to meet the needs not only of prospective teachers but also of all who are interested in the intelligent direction of education as a phase of civic or social service. It is a study of the practices, theories, and problems of modern education. The work of the course is illustrated by visits to assigned schools for the observation of children and of classroom practice, and by examples of school work. Throughout this course the applications of Psychology to Education are considered and discussed.

Open to juniors who have completed or who are taking Psychology 101, and to seniors. Three hours a week for a year.

MR. NORTON, MISS MCKEAG.

202. HISTORY OF EDUCATION. The purpose of the year's work is to study in some detail the most important events in the history of European and American education, and their effects on the present course

[1]Appointed for the second semester only.

of educational affairs. The lectures are constantly illustrated by original manuscripts, facsimiles, early editions of noted text-books, and similar historical documents, by translations from the sources, and by numerous lantern slides.

Open to juniors who have completed or who are taking Psychology 101, and to seniors. Graduates may elect this course under certain conditions. Three hours a week for a year. MR. NORTON.

301. SECONDARY EDUCATION. The principles and methods of secondary education, with special reference to the high schools of the United States. A study will be made of approved methods of teaching English, foreign languages, sciences, mathematics, and history in high schools. Opportunity will be given for observation of the work of specially successful high school teachers in the subject which the student expects to teach. In connection with this course the department of Education requires from graduates a semester of practice teaching in a high school.

Open by permission to seniors who have completed a full course in Education, and to graduates. Three hours a week for a year. Students who take course 302 or 303 are permitted to count the first semester of 301 as a semester course. MISS MCKEAG.

302. PRINCIPLES AND PROBLEMS OF RELIGIOUS EDUCATION. A study of the principles of education as applied to the teaching of religion; forms and methods of conduct control in the direction of the Christian ideal; survey and evaluation of available curricular materials for religious teaching; selected practical problems in the teaching of religion in the home, the school, the church school, and the community.

Open to seniors who have completed course 201. Students who elect this course may also elect the first semester of course 301 as a semester course. Three hours a week for the second semester.

MR. MARLATT.

303. PRINCIPLES AND METHODS OF TEACHING FRENCH IN SECONDARY SCHOOLS. The aim of this course is to teach the students how to impart to their pupils, in the shortest possible time, a speaking, understanding, reading, and writing knowledge of French. The instructor will deal with the several aspects of modern language work, such as the teaching of vocabulary, of grammar, of composition, and of translation; the selection and use of books, the equipment of the teacher and of her department in the high school.

Open to seniors who have completed Education 201 and who are taking course 301, 302, 305, 306, or 307 in the Department of French. Students who elect this course may also elect the first semester of Education 301 as a semester course. Three hours a week for the second semester.

MISS DENNIS.

321. PROBLEMS IN THE APPLICATION OF PSYCHOLOGY TO EDUCATION. (Not offered in 1929-30.) The subject-matter of this course will vary from year to year in accordance with the equipment and needs of students. The topics for study will be chosen from the field of experimental or statistical investigation or from that of the general science of education.

Open to graduates who have completed a full course in Education. Three hours a week for a year. MISS MCKEAG.

322. THE HISTORY, THEORY, AND PROBLEMS OF THE KINDERGARTEN. Froebel, the founder of the kindergarten. The sources and the development of kindergarten theory and practice. Current problems of the kindergarten; the relation of the kindergarten to the primary school and to the home; methods of developing initiative and thinking; the reorganization of kindergarten materials; the restatement of Froebelian principles.

Open to seniors and to graduates who have completed Psychology 101, or an equivalent, and one full course in Education. (Graduates must ordinarily take courses 322 and 323 together.) Three hours a week for a year. MISS REMY.

323. KINDERGARTEN PRACTICE: MATERIALS, METHODS. (Not given in 1929-30.) Course 323 deals in general with practical applications of the theory given in course 322. It includes on the one hand a detailed study of the materials, exercises, and methods of the kindergarten, and on the other, extensive observation of their use, with practice in teaching.

Open to graduates only. This course presupposes or is to be taken with course 322. (Graduates must ordinarily take courses 322 and 323 together.) Four hours a week for a year. MISS REMY.

324. ELEMENTARY EDUCATION: HISTORY, THEORY, PRACTICE, AND PROBLEMS. (Not offered in 1929-30.) Course 324 includes a detailed study of present elementary school practice, a critical discussion of the principles which underlie that practice, and the investigation of selected problems in elementary education.

Open to graduates who have completed Psychology 101, or an equivalent, and one full course in Education. Three hours a week for a year.

325. HISTORY OF EDUCATION. (Not offered in 1929-30.) This course covers the same periods in the history of education as course 202, but with additional reading, critical examination of the materials, and a detailed study of one or more topics from the sources. It is intended for graduate students who have had no general course in the history of education.

Open to graduates who have completed a full course in Education. Three hours a week for a year.

ENGLISH

I. English Language and Literature

Professors: Margaret Pollock Sherwood, Ph.D., L.H.D.
Alice Vinton Waite, M.A.
Martha Hale Shackford, Ph.D. (Chairman.)
Laura Emma Lockwood[2], Ph.D.
Laura Hibbard Loomis[5], Ph.D.
Elizabeth Wheeler Manwaring, Ph.D.
Associate Professors: Charles Lowell Young, B.A.
Alice Ida Perry Wood, Ph.D.
Helen Sard Hughes, Ph.D.
Annie Kimball Tuell, Ph.D.
Assistant Professors: Katharine Canby Balderston, Ph.D.
Edward Charles Ehrensperger, Ph.D.
Lecturer: George Raleigh Coffman, Ph.D.
Instructors: Ella Keats Whiting, Ph.D.
Grace Elizabeth Hawk, B.Litt. Oxon.
Assistants: Alfarata Bowdoin Hilton, B.A.
Gertrude Greene Cronk, M.A.

104. Old English. This course deals primarily with Old English literature. The most important works such as *Beowulf*, *The Christ*, *Wanderer*, *Seafarer*, Cædmon's poems, are read, either in the original or in translation, as showing the ideals and development of Old English civilization and culture. In addition, translations of heroic saga, such as the *Edda*, *Niebelungen Lied*, *Song of Roland*, are read for comparison.

Open to freshmen, sophomores, and juniors. Three hours a week for a year. Mr. Ehrensperger.

105. Fourteenth Century. This course presents an orderly survey of the century with the emphasis laid on major, not minor, writers. Certain authors, such as Chaucer and Gower; certain works, such as the *Vision of Piers Plowman*, the *Pearl*, *Sir Gawain and the Green Knight*, are read as intensively as possible, with the special purpose of giving training in literary criticism and in the discrimination of literary types.

Open to freshmen, sophomores, and juniors. Three hours a week for a year. Miss Whiting.

106. Sixteenth Century. This course presents the literature of the Renaissance in Elizabethan England. It gives its most detailed study to Spenser as a focus of Renaissance interests, themes, forms, and among minor writers gives special emphasis to Sir Philip Sidney. It considers against the background of the times the characteristic types of verse, and among the dramatists Shakespeare's important predecessors such as

[2]Absent on Sabbatical leave.
[5]Absent on leave for the second semester.

Marlowe, and two or three typical plays of Shakespeare. It follows the development of prose in criticism, fiction, accounts of voyages.

Open to freshmen, sophomores, and juniors. Three hours a week for a year.

MISS TUELL, MISS BALDERSTON, MR. EHRENSPERGER, MISS WHITING.

107. SEVENTEENTH CENTURY. This course gives a survey of the century with the emphasis on the great writers; such as, Milton for the study of epic; the cavalier and religious poets for lyric forms; Browne, Walton, Bunyan, Dryden for prose.

Open to freshmen, sophomores, and juniors. Three hours a week for a year. MISS HAWK.

201. HISTORICAL DEVELOPMENT OF ENGLISH LITERATURE. This course considers in historical order the greater works of English literature as the expression of contemporary life and thought. The first semester deals with the major writers from the mediæval period to the eighteenth century; the second semester, with the essayists and poets of the eighteenth and nineteenth centuries. This course may not be counted toward a major in English Literature.

Open to seniors, and to juniors by permission of the department, who have not taken and are not taking another course in the department. No prerequisites. Three hours a week for a year. MISS HUGHES.

202. AMERICAN LITERATURE. The course attempts to give a comprehensive account of American literature. It studies the Colonial and Revolutionary sources of American idealism, the rise of imaginative literature in the Middle States, the florescence of Puritan culture in New England, the achievement of democratic nationality in the mid-nineteenth century, the literature of the country at large after the Civil War, and contemporary literature, especially the new poetry. This course may not be counted toward a major in English Literature.

Open to sophomores, juniors, and seniors. No prerequisites. Three hours a week for a year. MR. YOUNG.

204. MILTON. The primary object of the course is the critical study of Milton as a master in lyric, epic, and dramatic poetry, and as a writer of notable prose. The character and genius of the poet are considered as influenced by the political and religious conflict of the times. Special emphasis is placed on the comparison of Milton's work with that of other great writers who have used the same literary forms.

Open to students, except freshmen, who have completed or are taking a course of grade I. Not open to students who have completed or are taking course 107. Three hours a week for a year. MISS HAWK.

205. SHAKESPEARE: SELECTED PLAYS. Six plays are intensively studied. In the first semester the main emphasis is upon Shakespeare's language, and in the second upon the dramatic qualities of the plays and upon literary interpretation. Time is given to a study of Shakespeare's life, the background of Elizabethan life and history, the Elizabethan theatre. Shakespeare's use of his sources is studied, and other plays of Shakespeare and his contemporaries are read for illustration.

Open to students, except freshmen, who have completed or are taking a course of grade I. Not open to students who have completed or are taking course 106 or 309. Three hours a week for a year.

MISS BALDERSTON.

206. THE ENGLISH NOVEL: THE RISE OF THE TYPES. The course deals with selected stages in the progress of the English novel, placing emphasis upon Richardson, Fielding, Smollett, and Sterne. It treats chiefly the realistic novel, but makes some study of romance from Sidney to Scott.

Open to students, except freshmen, who have completed or are taking a course of grade I. Three hours a week for a semester; offered in both semesters.

MISS TUELL.

207. ARTHURIAN ROMANCE. The course traces the development of Arthurian tradition through mediæval chronicles and verse romances, and centers in the study of the sources and significance of Malory's *Morte Darthur*.

Open to students, except freshmen, who have completed or are taking a course of grade I. Three hours a week for the first semester.

MRS. LOOMIS.

208. CHAUCER. The course emphasizes the study of Chaucer's life and times, of his development as a poet, and the influence upon him of his chief Latin, French, and Italian sources.

Open to students, except freshmen, who have completed or are taking a course of grade I. Not open to students who have completed or are taking course 105 or 326. Three hours a week for the first semester.

MRS. LOOMIS.

209. VERSIFICATION. The course has as its object such study of the principles of English versification as may give to the student of literature a keener appreciation of poetic expression; and in particular, for those interested in writing verse, opportunity for experiment and criticism.

Open to students, except freshmen, who have completed or are taking one full course in the department of English Literature, and also to those majoring in English Composition. One hour a week for a year.

MISS MANWARING.

301. SOCIAL IDEALS IN ENGLISH LETTERS. (Not offered in 1929-30.) Study of selected masterpieces from the social point of view. Rapid reading of *Piers Plowman*, More's *Utopia*, Swift's *Gulliver's Travels;* more careful work with Burke and the Revolutionary poets, and with the prose and poetry of the Victorian Age.

Open to seniors who have completed two full courses in English Literature or Economics or History, or who have completed one full course in any of these departments and are taking another course. Three hours a week for a year.

302. MODERN POETRY. The course proposes to show the special significance, as related to the English tradition, of the work of certain contemporary English poets, especially those who have won distinction since 1900. This course may not be counted toward a major in English Literature.

Open only to juniors and seniors who have already completed two full courses in the department. One hour a week for a year.

MISS MANWARING.

303. CONTEMPORARY DRAMA. The modern English drama is considered in relation to parallel European drama. This course may not be counted toward a major in English Literature.

Open to students who have completed two full courses above grade I in the department. Two hours a week for a year. MISS WAITE.

306. VICTORIAN PROSE. The course considers distinctive examples of Victorian prose, making a comparatively even division of time between the essay and the novel. The stress in class is laid upon Dickens, Carlyle, Newman, Thackeray, George Eliot, Ruskin, Arnold, Meredith, with briefer study of the minor novelists and some notice of late Victorians.

Open to juniors and seniors who have completed a course of grade I, and have completed or are taking a full year course or two semester courses of grade II. Not open to students who have completed or are taking course 307 or 321. Three hours a week for a year. MISS TUELL.

307. ENGLISH POETRY OF THE NINETEENTH CENTURY. The course considers the work of the great Georgian and Victorian poets in their relation to one another and to contemporary thought. Extended study is given to Wordsworth and Coleridge; Shelley and Keats; Tennyson and Browning; with briefer readings from Byron, Scott, Landor, Clough, Arnold, Rossetti, Morris, and Swinburne.

Open to juniors and seniors who have completed a course of grade I, and have completed or are taking a full year course or two semester

courses of grade II. Not open to students who have completed or are taking course 306 or 321. Three hours a week for a year.

MISS SHERWOOD.

309. SHAKESPEARE. This course attempts to trace the development of Shakespeare's thought and art. The plays and the sonnets are read and discussed; a few selected plays are examined in detail. Material illustrating the historical and the literary background is considered.

Open to juniors and seniors who have completed a course of grade I, and have completed or are taking a full year course or two semester courses of grade II. Not open to students who have completed or are taking course 106 or 205. Three hours a week for a year.

MISS SHACKFORD.

310. EIGHTEENTH CENTURY LITERATURE. The course considers all the major writers of the eighteenth century, with the exception of the novelists. In the first semester, the emphasis is upon the Queen Anne group,—Pope, Defoe, Swift, Addison, Steele, Prior, and Gay; in the second, upon Dr. Johnson and his circle. The course traces the influence upon literature of politics, of current ideas concerning man and society, and of changing standards of criticism. Some attention is given to the precursors of the romantic movement.

Open to juniors and seniors who have completed a course of grade I, and have completed or are taking a full year course or two semester courses of grade II. Not open to students who have completed or are taking course 320. Three hours a week for a year. MISS BALDERSTON.

311. SEVENTEENTH CENTURY EXCLUSIVE OF MILTON. (Not offered in 1929-30.) This course will be devoted to a somewhat intensive study of certain phases of the century. It will consider in particular the Drama, centering on Ben Jonson and Beaumont and Fletcher in the first half and on Dryden and Congreve in the second half of the century. It will also devote some time to the pamphlet as representing criticism of Church, State, Society, and especially to the developing art of literary criticism.

Open to juniors and seniors who have completed a course of grade I, and have completed or are taking a full year course or two semester courses of grade II. Not open to students who have taken or are taking course 107. Three hours a week for a year.

312. HISTORY OF THE ENGLISH LANGUAGE. The course presents the origin and structure of the English language in vocabulary, grammatical inflections, and syntax as the basis of modern usage.

Open to juniors and seniors. Three hours a week for a year.

MR. EHRENSPERGER.

324. CRITICAL STUDIES IN AMERICAN LITERATURE. (Not given in 1929-30.) This course provides for such students as wish to make, in each semester, a close study of one of the major writers in American literature; or to pursue, throughout the year, a single subject involving several writers. Choice among the authors or topics suggested may be made by each student according to her individual interest or need. Lectures, following the lines of critical interest in American literature which the course seeks to cultivate, deal in detail with one or two representative writers.

Open to juniors and seniors who have completed a course of grade I, and have completed or are taking a full year course or two semester courses of grade II. Three hours a week for a year. MR. YOUNG.

320. STUDIES IN EIGHTEENTH CENTURY LITERATURE. This course considers eighteenth century literature in relation to social and intellectual movements of the time. Special attention is given to literary problems connected with the prevalence of satire, the critical ideas of the School of Pope, and the influence of the rising middle class.

Open to graduates, and to approved seniors who are taking a twelve-hour major in the department. Not open to students who have completed or are taking course 310. Three hours a week for a year.
MISS HUGHES.

321. MODERN AUTHORS. (Not offered in 1929-30.) Two or more authors are chosen each year for special study. In 1928-29 these authors were Wordsworth and Browning. The work is carried on by class reading and discussion, and by assigned readings upon which individual reports are made.

Open to graduates, and to approved seniors who are taking a twelve-hour major in the department. Not open to students who have completed or are taking course 306 or 307. Three hours a week for a year.

322. ENGLISH ROMANTICISM. (Not given in 1929-30.) A study of the Romantic Movement in England, from its beginnings in the eighteenth century, on through the work of the early nineteenth century poets. Certain phases of the relation of English to German literature during the period of reaction are studied.

Open to graduates, and to approved seniors who are taking a twelve-hour major in the department. Three hours a week for a year.
MISS SHERWOOD.

323. CRITICAL STUDIES IN ENGLISH DRAMA. The course attempts to give training in the methods of literary investigation, through the assignment to each student of special topics. In 1929-30 selected studies will

be made of the work of Shakespeare and his contemporaries, especially Lyly, Marlowe, Jonson, Chapman.

Open to graduates, and to approved seniors who are taking a twelve-hour major in the department. Three hours a week for a year.

MISS SHACKFORD.

325. BEGINNINGS OF THE ENGLISH RENAISSANCE FROM CAXTON TO SHAKESPEARE. (Not offered in 1929-30.) The course aims to give graduate training, and so to present the beginnings of the English Renaissance that the student may rightly estimate the achievements of the great Elizabethans.

Open to graduates, and to approved seniors who are taking a twelve-hour major in the department. Three hours a week for a year.

326. MEDIÆVAL ENGLISH LITERATURE. First semester: A study of Chaucer, including a reading of as many of his writings as time permits, and discussion especially with reference to his growth as a literary artist. Second semester: An approach to mediæval English Drama, beginning with the Easter dramatic offices and closing with the moralities.

Open to graduates, and to approved seniors who are taking a twelve-hour major in the department. Not open to students who have completed or are taking course 105, or 207, or 208. Three hours a week for a year.

MR. COFFMAN.

327. SEMINAR IN OLD ENGLISH. (Not given in 1929-30.) A study of Old English inflections, phonology, and syntax. The reading of the best pieces of literature in Old English prose and poetry. A particular problem in either literature or language is assigned to each student for investigation.

Open to graduates, and to seniors by permission of the department. Three hours a week for a year.

MR. EHRENSPERGER.

328. BIBLIOGRAPHY. This course undertakes to familiarize the student of English literature, at the outset of her graduate work, with the sources of material, and with the methods of discovering it in general works of reference, in technical periodicals, and in special studies in the fields of English literary history.

Open to graduate students. Two hours a week for the second semester.

MISS MANWARING.

For courses in Greek Literature in English Translations see Department of Greek.

II. English Composition

PROFESSORS: SOPHIE CHANTAL HART, M.A. (CHAIRMAN.)
AGNES FRANCES PERKINS[2], M.A.
ELIZABETH WHEELING MANWARING, PH.D.
ASSOCIATE PROFESSORS: JOSEPHINE HARDING BATCHELDER, M.A.
ALFRED DWIGHT SHEFFIELD, M.A.
BERTHA MONICA STEARNS, M.A.
ASSISTANT PROFESSOR: EDITH CHRISTINA JOHNSON, M.A.
INSTRUCTORS: EDITH HAMILTON, M.A.
RUTH SANGER CONANT, M.A.
WILMA LUCILE KENNEDY, M.A.
RUTH FORBES ELIOT, M.A.

101†. REQUIRED FRESHMAN COMPOSITION. First semester: exposition, special stress on structure. Weekly themes. Second semester: exposition, critical and interpretative; description; simple narration. Fortnightly themes or their equivalent.

Required of freshmen. Three hours a week for a year.

MISS MANWARING, MISS BATCHELDER, MR. SHEFFIELD, MISS STEARNS, MISS HAMILTON, MISS CONANT, MISS KENNEDY, MISS ELIOT.

102. CONTINUATION COURSE IN COMPOSITION.

Required of students who have made D grade in the second semester of course 101. Three hours a week for the first semester. MR. SHEFFIELD.

203. STUDIES IN JOURNALISTIC WRITING. A critical study of selected types of journalistic writing: the news story, the editorial, the book and play review, and the special article, as exemplified in typical American and English newspapers and periodicals. Weekly or fortnightly themes.

Open to juniors who have completed course 101, and to sophomores who have completed course 101 with a credit grade in the second semester. Not open to students who have completed or are taking course 206. Three hours a week for the first semester.

MISS BATCHELDER, MISS JOHNSON.

204. STUDIES IN CONTEMPORARY WRITING. This course is a continuation of either course 203 or course 206, although it may be elected separately in the second semester. A study of the essay form, biography, the critical review and the sketch; the interpretative study of prose style. Fortnightly themes or their equivalent.

Open to juniors who have completed course 101, and to sophomores who have completed course 101 with a credit grade in the second semester,

[2]Absent on Sabbatical leave.

†If a student submits papers notably defective in English as part of her work. in any department, she may incur a condition in English Composition, whether or not she has completed the requirement in English Composition.

or course 102. Not open to students who have completed or are taking course 207. Three hours a week for the second semester.

Miss BATCHELDER, Miss JOHNSON.

206. FREE WRITING. Practice in varied types of composition adapted to the needs and interests of the individuals in the course. Manuscripts submitted to the constructive criticism of the class.

Open to juniors who have completed course 101, and sophomores who have completed course 101 with a credit grade in the second semester. Not open to students who have completed or are taking course 203. Three hours a week for the first semester. Miss STEARNS, Miss KENNEDY.

207. FREE WRITING. This course is a continuation of either course 203 or course 206, although it may be elected separately in the second semester. Analysis of contemporary material in the different types of writing practiced. Manuscripts submitted to the constructive criticism of the class.

Open to juniors who have completed course 101, and to sophomores who have completed course 101 with a credit grade in the second semester or course 102. Not open to students who have completed or are taking course 204. Three hours a week for the second semester.

Miss STEARNS, Miss KENNEDY.

301. NARRATIVE WRITING. The aim of this course is two-fold: to give to a student interested in narrative writing not only exercise in the problems of narration, but especially a fuller realization of the possibilities of material at her disposal; and to give to those whose concern with narrative is chiefly that of readers, some increased perception of the qualities of good narrative. Four narratives, approximately 1,800 words each, or their equivalent. Study of principles and forms of narrative writing, including analysis of one novel. The course is not primarily a course in the short story.

Open to juniors and seniors who have completed course 101. Two hours a week for the first semester. Miss MANWARING, Miss JOHNSON.

302. SHORT THEMES. This course is a continuation of course 301. It may be elected separately in the second semester. The aim of this course is by practice in writing briefly on many sorts of subjects to increase suppleness and precision of style, with especial consideration of diction and sentence form and rhythm; and to develop a keener sense of the excellences of many kinds of writing. Short themes, averaging 500 words weekly. Reading and class discussion of the theory and practice of various writers.

Open to juniors and seniors who have completed course 101. Two hours a week for the second semester. Miss MANWARING, Miss JOHNSON.

303. THE THEORY AND HISTORY OF CRITICISM. Lectures on the critical theory of Plato and Aristotle and on the more important English and French critics.

Open to juniors and seniors. One hour a week for a year.

MISS HART.

304. ADVANCED COURSE IN ENGLISH COMPOSITION. Studies in exposition, description, and narration, with one piece of dramatization or an original play. An opportunity will be given once each semester to correct some freshmen themes, under the criticism of the instructor. Frequent practice in writing.

Open to seniors who have completed course 203 or 206 followed by course 204 or 207, or courses 301.302, or by special permission of the instructor, course 303. Three hours a week for a year. MISS HART.

350. DIRECTED READING.

Open by permission to seniors who are taking a course of grade III in the department. One hour a week for a year.

FRENCH

ASSOCIATE PROFESSORS: HENRIETTE ANDRIEU, AGRÉGÉE DE L'UNIVERSITÉ. (CHAIRMAN.)
MARGUERITE MESPOULET, AGRÉGÉE DE L'UNIVERSITÉ.
RUTH ELVIRA CLARK[3], LITT.D.

ASSISTANT PROFESSORS: DOROTHY WARNER DENNIS, B.A., DIPL. E.U.
MARGUERITE BRÉCHAILLE, AGRÉGÉE DE L'UNIVERSITÉ.
LOUISE BULKLEY DILLINGHAM[3], PH.D.
FRANÇOISE RUET, M.A., AGRÉGÉE DE L'UNIVERSITÉ
ANDRÉE BRUEL, DOCTEUR DE L'UNIVERSITÉ DE PARIS.

INSTRUCTORS: MARIE ANTOINETTE QUARRÉ, B.A., C.E.S.
EDITH MELCHER, PH.D., DOCTEUR DE L'UNIVERSITÉ DE PARIS.
FERNANDE JEANNE COUFOULENS, C.E.S.

ASSISTANT: CLAIRE AUGER, B.A.

All courses beginning with course 101 are conducted in French.

101‡. ELEMENTARY COURSE. FRENCH PHONETICS, GRAMMAR, COMPOSITION, READING, EXERCISES IN SPEAKING, AND DICTATION. The course includes (1) a practical study of French pronunciation, phonetic drill; (2) the practical study of French grammar; (3) readings on French life and French institutions. Constant oral drill and frequent written work.

Open to students who do not present French for admission. Three hours a week for a year. MISS AUGER.

102‡. INTERMEDIATE COURSE. FRENCH PHONETICS, SYNTAX, COMPOSITION; READINGS FROM CONTEMPORARY AUTHORS OF NOTE; EXERCISES IN

[3]Absent on leave.

‡First-year French may not be counted toward the B.A. degree if taken after the sophomore year, nor second-year French if taken after the junior year. French 101 and German 101 may not both be counted toward the B.A. degree.

SPEAKING; WRITING FROM DICTATION. The course includes (1) a practical study of French pronunciation with phonetic drill; (2) a systematic review of syntax introductory to theme writing and oral narrative; (3) selected readings—prepared and sight—from modern writers. Constant oral drill and frequent written work.

Open to students who have completed course 101, or present two units in French for admission. Three hours a week for a year.

MISS DENNIS, MISS MELCHER, MISS AUGER.

103. THIRD FRENCH COURSE. The aim of this course is to prepare students for more advanced work in language and in literature. The course includes a careful study of pronunciation, vocabulary, grammar, varied reading selected from literary masterpieces and application of the lecture expliquée methods. It affords opportunity for constant practice in the written and the spoken language. Frequent exercises and themes. Outside reading of representative novels.

Open to students who present three units in French for admission or have completed course 102. Three hours a week for a year

MISS DENNIS, MISS BRÉCHAILLE, MISS BRUEL, MISS QUARRÉ, MISS MELCHER.

201. HISTORY OF FRENCH CIVILIZATION. This course emphasizes fluency and flexibility in the use of the language. It includes translation, themes and oral composition, together with the careful study of selected passages of prose and poetry (*lecture expliquée*) and more extensive reading. The texts, both historical and literary, are chosen in the first semester in the Middle Ages and the Renaissance, and in the second semester in the seventeenth and eighteenth centuries. Frequent written work.

Open to students who have completed course 103 or present four units in French for admission and, on recommendation of the department, to students who have completed course 102. Three hours a week for a year.

MISS DENNIS, MISS RUET.

202. COMPOSITION, TRANSLATION, GRAMMAR. Weekly written exercises. The object of the course is to provide additional practice in the written and spoken language.

Open to students who have completed course 103. One hour a week for a year. MISS QUARRÉ, MISS MELCHER.

203. HISTORY OF FRENCH LITERATURE. A survey course, with illustrative reading. Intended primarily for students who do not expect to major in French. More ground is covered than in course 204. Class discussion of selected masterpieces, short papers, outside reading. First semester; a brief study of the Middle Ages and the Renaissance; the

seventeenth century; second semester: the eighteenth century and the first half of the nineteenth.

Open to approved students who have completed course 103 and exceptionally, on recommendation of the department, to students who have completed course 102. This course is not open to students who have completed or are taking course 204. Three hours a week for a year.

MISS RUET.

204. HISTORY OF FRENCH LITERATURE. A survey course, with illustrative reading. Intended primarily for students who expect to major in French. Emphasis on method rather than on comprehensiveness, in view of further work. First semester: A study of the most important French authors of the Middle Ages and of the Renaissance. The texts used are modern French. Second semester: French literature in the seventeenth and eighteenth centuries. Brief papers, lecture expliquée, class discussion, outside reading.

Open to approved students who have completed course 103 and who intend to major in French. This course is not open to students who have completed or are taking course 203. Three hours a week for a year.

MISS COUFOULENS.

301. THE CLASSICAL PERIOD OF FRENCH LITERATURE. The main object of the course is the study of the development of French classical literature and of French society. Special importance is given to the works of Descartes, Pascal; La Rochefoucauld, La Bruyère, Bossuet; Madame de Sévigné, Madame de Lafayette; La Fontaine, Boileau; Corneille, Racine, Molière. Outside reading, written exercises.

Open to students who have completed course 201 with credit, or course 203 or 204 and to seniors who have completed or are taking three hours of grade II. Three hours a week for a year.

MRS. ANDRIEU, MISS COUFOULENS.

302. EIGHTEENTH CENTURY LITERATURE. The aim of this course is to trace the development of the esprit philosophique, and to show the evolution of ideals in this century. While other authors will be taken up, the course will stress the work of Montesquieu, Voltaire and Rousseau. Class discussion of selected masterpieces.

Open to juniors and seniors who have completed course 203 or 204. Three hours a week for a year. MISS COUFOULENS.

303. SPECIAL STUDIES IN THE NINETEENTH CENTURY. (Not offered in 1929-30.)

Open to juniors and seniors who have completed course 203 or 204. Three hours a week for the second semester.

304. CONVERSATION. A conversation course based on the reading of contemporary regional novels on Brittany, Normandy, Touraine, Béarn, etc.

Open to juniors and seniors who have completed or are taking a course of grade II, and, on recommendation of the department, to sophomores who have completed a course of grade II. Two hours a week for the first semester. MISS MESPOULET, MRS. ANDRIEU.

309. CONVERSATION. The work of the course is the same as in 304 but other novels will be assigned.

Open to juniors and seniors who have completed or are taking a course of grade II, to students who have completed course 304, and, on recommendation of the department, to sophomores who have completed a course of grade II. Two hours a week for the second semester.
MISS MESPOULET, MRS. ANDRIEU.

305. INTENSIVE READING. The work of this course will consist of the intensive study of one subject. In 1929-30, the subject chosen will be: History of the French Novel with special emphasis on the evolution of the "genre" and on those periods not touched upon in other courses given the same year.

Open to juniors and seniors who have completed course 203 or 204 or who are taking a course of grade III. Three hours a week for a year.
MISS BRUEL.

306. NINETEENTH CENTURY LITERATURE. ROMANTICISM. A study of the romantic movement in French literature together with that of the great novelists and poets of that period: Lamartine, Vigny, Victor Hugo, Musset, Chateaubriand, Mme. de Staël, Balzac, Fromentin, George Sand, Stendhal, Barbey d'Aurevilly.

Open to juniors and seniors who have completed course 301, or 302, or 305, and, on recommendation of the department, to students who have completed course 203 or 204. Three hours a week for a year.
MISS MESPOULET, MISS BRÉCHAILLE.

307. CONTEMPORARY FRENCH LITERATURE. I. The evolution of French poetry from Baudelaire down to the present day, with special studies of Baudelaire, Rimbaud, Verlaine, de Régnier, Claudel, Valéry, Max Jacob, etc. II. The great masters of French prose during the same period, such as Huysmans, Barrès, Léon Bloy, Gide, Giraudoux, Mauriac, etc.

Open to seniors who have completed course 301 or 302 or 305 or 306, and, exceptionally, on special recommendation of the department, to seniors who have completed course 203 or 204. Three hours a week for a year. MISS MESPOULET.

308. STUDIES IN LANGUAGE. Advanced composition and translation.

Open to juniors and seniors who are taking a course of grade III, and, on recommendation of the department, to juniors and seniors who have completed a course of grade II. Two hours a week for the first semester.
MISS BRÉCHAILLE.

310. STUDIES IN LANGUAGE. The aim of this course is the same as in 308 but different subjects and texts will be studied.

Open to juniors and seniors who are taking a course of grade III, or have completed course 308, and, on recommendation of the department, to juniors and seniors who have completed a course of grade II. Two hours a week for the second semester. MISS BRÉCHAILLE.

350. DIRECTED READING. Study of the work and personality of the great masters of the Romanticist period.

Open by permission of the department to properly qualified seniors and juniors who are taking course 306. Three hours a week for the second semester. MISS MESPOULET.

321. OLD FRENCH. (Not offered in 1929-30.)

Open to graduate students who have completed twelve year-hours of college French, and, on recommendation of the department, to seniors who have completed the same amount of work. Three hours a week for a year.

GEOLOGY AND GEOGRAPHY

PROFESSOR: MARY JEAN LANIER, PH.D. (CHAIRMAN.)
ASSOCIATE PROFESSOR: MARGARET TERRELL PARKER, M.A.
LECTURER: RUSSELL GIBSON, PH.D.
ASSISTANT: HARRIET ELIZABETH LEE, M.A.
LABORATORY ASSISTANT: ELEANOR HOYT, B.A.

101. GENERAL GEOLOGY. First Semester—Physiography. A study of the work which wind, waves, rivers, glaciers, volcanoes, and earth movements have done and are doing to shape the earth's surface. This study explains the origin of hills and valleys, of plains, plateaus and mountains, of continents and ocean basins, and makes clear the ways in which these surface features have affected man's life. Second Semester—Historical Geology. The origin of the earth and the evolution of the earth and the life on it from the time of its origin until the present.

Open to all undergraduates. Six periods a week: in general, three of lecture or discussion and three of laboratory or field work, counting three hours a week for a year. MISS LANIER, MISS PARKER, MISS LEE, MISS HOYT.

Geology

201. EARTH EVOLUTION. (Not offered in 1929-30.) The origin and evolution of the earth and the life on it as revealed by a study of the rocks of past geologic ages and the fossils they contain. The study includes an explanation of the earth's present surface features, and of the processes by which they have been formed and are now being modified.

Open to juniors and seniors. Not open to students who have completed course 101. Three class periods and one two-period laboratory appointment a week, counting three hours a week for the first semester.
MISS PARKER, MISS LEE.

202. MINERALOGY. A study of the minerals which are noteworthy either because they are essential constituents of rocks, or because they are of value economically. The treatment will include a study of the principles of crystallography; the sight recognition of minerals by means of their physical properties; the determination of minerals by means of blowpipe analysis; the mode of occurrence of those minerals; the uses to which they are put industrially.

Open to students who have completed course 101 or 201. Two three-period appointments a week for lecture or laboratory work, counting three hours a week for the first semester. MR. GIBSON, MISS LEE.

207. ADVANCED GEOLOGY. A more advanced study than can be undertaken in course 101 of various problems in geology, chiefly structural and dynamic. Such topics as sedimentation, folding, fracturing, earthquakes, vulcanism and metamorphism, theories as to the earth's age and origin are given detailed treatment.

Open to students who have completed course 101 or 201. Course 202 is a desirable prerequisite. Three class periods for lecture or discussion. Occasional field trips or laboratory appointments will be substituted for class work. Three hours a week for the second semester. MR. GIBSON.

301. FIELD GEOLOGY. An introduction to the methods of field study. The course is designed to train the student to make a topographic map, and to interpret and map the geology of a region.

Open to juniors and seniors who have completed course 101 or 201, and course 202 or 207. One three-period lecture or laboratory appointment, or one afternoon in the field, with independent field work related to the student's special problem, counting three hours a week for the first semester. MR. GIBSON.

306. PALEONTOLOGY. (Not given in 1929-30.) The course deals with the facts and problems of organic evolution, as revealed by the life of

past geologic ages. By means of a study of fossils, the steps in the development from simple, generalized life forms to more complex and specialized types are traced. The effects of physical environment upon life development are emphasized.

Open to juniors and seniors who have completed Geology 101 and either Zoology 101 or Botany 101 or a course of grade II in Geology. One three-period appointment for lectures, class discussion, and laboratory work, with independent laboratory assignments, counting three hours a week for the first semester.

311. ECONOMIC GEOLOGY. A study of the origin, composition, and location of economically valuable mineral deposits. The lectures and readings are directed toward familiarizing the student with both metallic and non-metallic mineral deposits in their general mineralogical and geological relations.

Open to juniors and seniors who have completed course 202. Three hours a week for the second semester. MR. GIBSON.

321. PROBLEMS IN GEOLOGY. This course is designed to give students training in independent investigation. Individual problems are assigned and reports to the instructor are made at regular intervals.

Open to graduate students and by permission to seniors who are majoring in Geology. Three hours a week for the first semester. MR. GIBSON.

Geography

206. CONSERVATION OF OUR NATURAL RESOURCES. (Not offered in 1929-30.) A study of the natural resources of the United States and the efficient use of these resources. The course includes the study of the need for reducing soil waste, reclaiming swamp and arid lands, increasing agricultural production and conserving mineral fuels and metals, and of the methods of attaining these results. The course further deals with problems of forest protection, water supply, control of water power, and the use of inland waterways. The course helps to establish principles of good citizenship.

Open to juniors and seniors, and to sophomores who have completed course 101. Three hours a week for the second semester.

208. THE GEOGRAPHY OF EUROPE. A study of man's adjustment to physical environment in Europe. The topography of Europe is explained in the light of the geologic history of the continent. The basic principles controlling European climate are considered. These studies are used as the background for understanding the early rise of civilization in Europe, the distribution of races, the origin of the various political units, and

the economic development of Europe as a whole. Certain selected nations are then given further detailed study.

Open to juniors and seniors, and to sophomores who have completed course 101 or who are majoring in History. Three hours a week for the first semester. MISS PARKER.

209. THE ECONOMIC GEOGRAPHY OF NORTH AMERICA. A study of man's economic activities as related to environmental factors in the major geographic regions of North America. The objective of the course is to develop a clear conception of the elements of the natural environment, such as climate, topography, soils, surface and underground waters, mineral resources, native vegetation, and to emphasize in the regions studied the important adjustments which man has made to these elements.

Open to juniors and seniors, and to sophomores who have completed course 101 or who are majoring in History. Three hours a week for the second semester. MISS LANIER.

304. THE GEOGRAPHY OF SOUTH AMERICA. A study of the physiographic features, climates, and resources of South America; the influence of these factors upon the colonization of the continent by Europeans, upon the formation of independent political units, and upon the present and possible future economic development of the various countries.

Open to juniors and seniors who have completed course 101 and a course of grade II in the department, or course 201; by permission to students of South American history. Three hours a week for the first semester. MISS LANIER.

305. SEMINAR IN GEOGRAPHY. The course begins with a study of the methods of individual research. Early in the course a selected topic is assigned to each student for investigation and reports of the individual work are presented weekly.

Open to graduate students and to approved seniors. Three hours a week for the second semester. MISS PARKER.

307. THE HISTORICAL GEOGRAPHY OF THE UNITED STATES. An analysis of the relations between the natural environment and the settlement and development of the country. The adjustments to varied environments in connection with the westward expansion of the American people. An interpretation in selected areas of readjustments made from time to time in response to the changing significance of some element or elements in the environment. A geographic background to American history.

Open to juniors and seniors who have completed course 209, and by permission to students of American history. Three hours a week for the first semester. MISS LANIER.

308. PROBLEMS IN THE GEOGRAPHY OF EURASIA. A geographic study of selected regions of Europe and Asia (exclusive of countries given detailed treatment in course 208). Students will interpret independently in so far as possible the human response to physical environment in each region. The course gives opportunity to apply independently geographic principles developed in earlier regional courses, as well as to gain familiarity with new territory and to study interesting contrasts between oriental and western civilizations.

Open to juniors and seniors who have completed course 208. Three hours a week for the second semester. MISS PARKER

309. CLIMATES OF THE WORLD. (Not offered in 1929-30.) A course designed to give an understanding of the major types of climate and of their distribution in the several continents; to show the significance of climate as a factor in the economic activities of a region and in the trade between different regions.

Open to juniors and seniors who have completed at least one regional course in geography. Three hours a week for the second semester.

GERMAN

PROFESSOR: NATALIE WIPPLINGER, PH.D. (CHAIRMAN.)
ASSISTANT PROFESSOR: ODA IRMTRUD FRIEDLIND LOHMEYER[3], PH.D.
INSTRUCTORS: ELISABETH BIEWEND.
OLGA STEINER.
MARILIES MAUK.
ASSISTANT: WILHELMINE RUEGENBERG.

101‡. ELEMENTARY COURSE. GRAMMAR, READING, ORAL AND WRITTEN EXERCISES. The texts used in this course are made the basis for a study of grammatical forms and rules, for speaking exercises and composition work.

Open to students who do not present German for admission. Three hours a week for a year.

MRS. BIEWEND, MISS STEINER, MISS RUEGENBERG.

102‡. ELEMENTARY COURSE. READING, FREE REPRODUCTION, WRITTEN AND ORAL EXERCISES, SHORT THEMES, MEMORIZING OF POEMS.

Open to students who have completed course 101 or present two units in German for admission. Three hours a week for a year.

MRS. BIEWEND, MISS STEINER, MISS MAUK.

[3]Absent on leave.

‡First-year German may not be counted toward the B.A. degree if taken after the sophomore year, nor second-year German if taken after the junior year. German 101 and French 101 may not *both* be counted toward the B.A. degree.

103. GRAMMAR AND COMPOSITION. Review of elementary grammar and study of more advanced grammar.

Open to freshmen who present three units in German for admission, and required in connection with course 104. Course 103 cannot be taken without course 104. One hour a week for a year. MISS MAUK.

104. OUTLINE HISTORY OF GERMAN LITERATURE. The object of this course is to furnish the student with the vocabulary necessary for the reading and discussion of literature, and to give her a general historical background for the more detailed study of German literature in subsequent courses.

Open to freshmen who present three units in German for admission, and required in connection with course 103. Course 104 cannot be taken without course 103. Two hours a week for a year. MISS MAUK.

201. GRAMMAR AND COMPOSITION. The aim of this course is to give the student practice in oral and written expression.

Open to students who have completed course 102, and required of those taking course 202. Course 201 cannot be taken without course 202. One hour a week for a year. MISS WIPPLINGER, MISS STEINER.

202. HISTORY OF GERMAN LITERATURE. The course consists of discussions, reading, and occasional lectures on the history of German literature before Goethe. The aim of the course is to trace the parallel development of the language, literature, social conditions, and religious ideals of the times.

Open to students who have completed course 102, and required in connection with course 201. Course 202 cannot be taken without course 201. Two hours a week for a year. MISS WIPPLINGER, MISS STEINER.

204. SCHILLER'S LIFE AND WORKS (Introductory Course). Lectures, discussions. Study of Schiller's life and some of his important dramatic works.

Open to students who have completed courses 103, 104, or 201, 202. Three hours a week for the first semester. MISS WIPPLINGER.

205. GOETHE'S LIFE AND WORKS (Introductory Course). Lectures, discussions. Study of the principal characteristics of Goethe's life and works to the time of his literary co-operation with Schiller.

Open to students who have completed course 204. Three hours a week for the second semester. MISS WIPPLINGER.

207. MODERN GERMAN IDIOM. This course is designed to aid the student in acquiring a larger working vocabulary. Modern German texts are used as a basis of study. Constant oral and frequent written practice.

Open to students taking other work in German, who have completed courses 103, 104, or 201, 202, and by special permission to those who have completed course 102. One hour a week for a year. MISS MAUK.

301. GERMAN NOVEL. Historical development of the German novel since Goethe.

Open to juniors and seniors who have completed or are taking three hours of grade II. Two hours a week for a year. MISS MAUK.

302. HISTORY OF THE GERMAN LANGUAGE. (Not offered in 1929-30.) This course aims to give a fuller and more thorough understanding of modern German through the study of its historical development. Textbook: Behaghel's *Die deutsche Sprache.*

Open to juniors and seniors who have completed three hours of grade II and are taking other work in German. One hour a week for a year.

303. MIDDLE HIGH GERMAN (Introductory Course). (Not offered in 1929-30.) Survey of Middle High German forms and sounds. Translation of Middle High German epic and lyric poetry into the modern idiom.

Open to juniors and seniors who have completed at least three hours of grade II. Three hours a week for the second semester.

304. GOETHE'S FAUST, PART I. Study of the pre-Goethean development of the Faust legend in its more important literary forms. Close study of the text of Goethe's *Faust,* Part I.

Open to juniors and seniors who have completed courses 204, 205. Three hours a week for the first semester. MISS WIPPLINGER.

305. THE GERMAN ROMANTIC SCHOOL. A study of the development and spirit of the German Romantic School.

Open to juniors and seniors who have completed course 304. Three hours a week for the second semester. MISS WIPPLINGER.

306. LESSING AS DRAMATIST AND CRITIC. (Not offered in 1929-30.) Treatment of Lessing's critical work in literature, theology and æsthetics.

Open to juniors and seniors who have completed course 304. Three hours a week for the second semester.

307. GOETHE, ADVANCED COURSE (Seminary Course). Study of Goethe's lyrics, ballads, later dramas, parts of *Faust II, Wilhelm Meister.*

Open to seniors who have completed course 304. Three hours a week for the first semester. MISS WIPPLINGER.

308. NINETEENTH CENTURY DRAMA. Special study of Kleist, Grillparzer, Hebbel, Ibsen, Hauptmann, Schnitzler, Hofmannsthal, Strindberg, Wedekind; their relation to classic and romantic art, and to the social and philosophical problems of the century.

Open to seniors who have completed course 304. Three hours a week for the second semester. MISS WIPPLINGER.

309. SCHILLER AS PHILOSOPHER AND WRITER ON ÆSTHETICS (Seminary Course). (Not offered in 1929-30.) Study of Schiller through his correspondence with Körner, Goethe, etc., and through his philosophic poems and essays.

Open to seniors who have completed course 204 and at least three hours of grade III. Three hours a week for the first semester.

310. GOTHIC. (Not offered in 1929-30.)

Open to graduates and to seniors by permission of the instructor. Three hours a week for the second semester.

311. GERMAN LYRIC POETRY IN THE NINETEENTH AND TWENTIETH CENTURIES.

Open to juniors and seniors who have completed courses 201, 202, and are taking another course in the department. One hour a week for a year. MISS WIPPLINGER.

350. DIRECTED READING.

Open by permission to juniors and seniors who are taking a course of grade III in the department. One or two hours a week for a year. The amount of work contemplated must be indicated at the time of handing in electives. MISS WIPPLINGER, MISS STEINER, MISS MAUK.

GREEK

ASSISTANT PROFESSOR: HELEN HULL LAW, PH.D. (CHAIRMAN.)
INSTRUCTOR: BARBARA PHILIPPA MCCARTHY, PH.D.

101. BEGINNING GREEK. The aim of the course is to cover in one year the fundamental facts of Greek grammar with practice in reading and writing. The text-book is Allen's *First Year in Greek*. The longer selections for reading are from Plato, but quotations from other masterpieces of prose and poetry are included.

Open to students who do not present Greek for admission. Three hours a week for a year. MISS LAW, MISS MCCARTHY.

201. PLATO: *Apology* and selections from other dialogues.

Open to students who have completed course 101 or present two or three units in Greek for admission. Three hours a week for the first semester. MISS LAW.

205. HOMER: *Iliad,* first three books and selections.

Open to students who have completed courses 101 and 201 or present two units in Greek for admission and have completed course 201, and to others on recommendation of the department. Three hours a week for the second semester. MISS LAW.

202. HOMER: Selected books of the *Odyssey* or other material selected to meet the needs of the class.

Open to students who present three units in Greek for admission and have completed course 201. Three hours a week for the second semester. MISS MCCARTHY.

203. GREEK LITERATURE IN ENGLISH TRANSLATIONS. The class will read in translation selections from the works of the Greek poets, from Homer to Theocritus. Lectures on the development of Greek literature and class-discussions will accompany the reading. Special emphasis will be placed upon Greek drama, and as many plays as possible will be read and studied. This course may not be counted toward a major in Greek.

Open to juniors and seniors. Three hours a week for the first semester. MISS LAW.

204. CLASSICAL MYTHOLOGY. The more important myths of the classical period will be studied in relation to the literature, art and religion of ancient times and their influence on the literatures of succeeding periods. This course may not be counted toward a major in Greek.

Open to juniors and seniors. Three hours a week for the second semester. MISS LAW.

206. WRITING OF GREEK. (Not given in 1929-30.) Review of the essentials of grammar and syntax. Written exercises based on prose selections to be read at sight in class.

Open to students who have completed course 101 and are taking another course in the department other than courses 203 and 204. One hour a week for a year.

301. GREEK DRAMA. Reading and study of dramas of Æschylus, Sophocles, Euripides and Aristophanes.

Open to students who have completed course 201 and either course 205 or 202. Three hours a week for a year. MISS LAW.

302. GREEK POETRY FROM HESIOD THROUGH THEOCRITUS. This course includes non-Homeric epic, elegiac, lyric and pastoral poetry.

Open to students who have completed or are taking course 301. Three hours a week for a year. MISS MCCARTHY.

307. GREEK HISTORIANS. (Not offered in 1929-30.) Special study of the history of Greece in the fifth century from the Greek historians: the Persian war from Herodotus; the development of the Athenian Empire and the Peloponnesian War from Thucydides with collateral reading from Plutarch, Aristotle and Æschylus (*Persians*) and some important historical inscriptions.

Open to students who have completed course 301. Three hours a week for a year.

For courses in the study of Greek Testament see Biblical History.

GROUP LEADERSHIP

ASSOCIATE PROFESSOR: ALFRED DWIGHT SHEFFIELD, M.A.

201. LEADERSHIP IN ORGANIZED GROUPS. A study of the processes of thought and expression by which clubs, conferences, and committees deal with current problems in the community. The work will be based partly on the records of group experience in Christian Associations, civic and philanthropic boards, industrial joint councils, and adult education projects, partly on guided observations of current organizational procedures, and partly on readings in social psychology.

Open to seniors, and to juniors and sophomores who have completed, or are taking, Economics 101 or History 103. Three hours a week for a year. MR. SHEFFIELD.

HISTORY

PROFESSORS: JULIA SWIFT ORVIS, PH.D.
MABEL ELISABETH HODDER[2], PH.D.
EDNA VIRGINIA MOFFETT, PH.D. (CHAIRMAN.)
ASSOCIATE PROFESSORS: BARNETTE MILLER, PH.D.
EDWARD ELY CURTIS, PH.D.
JUDITH BLOW WILLIAMS[3], PH.D.
ASSISTANT PROFESSOR: LOUISE OVERACKER, PH.D.
INSTRUCTORS: MARGUERITE APPLETON, PH.D.
VINCENT MARY SCRAMUZZA, PH.D.
ASSISTANT: ELEANOR PARSONS CASE, M.A.

103. HISTORY OF WESTERN EUROPE FROM THE FIFTH CENTURY TO THE CONGRESS OF VIENNA. A general survey of the history of Western Europe from the decline of Rome to 1815. The course aims to train students

[2]Absent on Sabbatical leave.
[3]Absent on leave.

in methods of historical work and to furnish a background for the detailed study of particular periods.

Open to all undergraduates. This course is prerequisite to later election. Three hours a week for a year. MISS ORVIS, MISS MOFFETT, MISS MILLER, MISS APPLETON, MR. SCRAMUZZA.

201. HISTORY OF EUROPE SINCE THE FRENCH REVOLUTION. This course includes (1) an introductory discussion of the condition of France on the eve of the Revolution; (2) a study of the Revolution and the Napoleonic Era; (3) a study of the influence of revolutionary ideas in the subsequent history of Europe.

Open to sophomores, juniors, and seniors who have completed one full course in History. Three hours a week for a year. MISS ORVIS.

202. CONSTITUTIONAL HISTORY OF ENGLAND TO 1399. (Not offered in 1929-30.) A study of the development of English constitutional government as an expression of the character of the English people. The course deals with Germanic origins, and with the development of English thought along constitutional lines to the close of the Plantagenet period.

Open to students who have completed one full course in History. Three hours a week for the first semester. MISS MOFFETT.

203. CONSTITUTIONAL HISTORY OF ENGLAND FROM 1399 TO THE PRESENT TIME. (Not offered in 1929-30.) A study of the later development of the English constitution, the rise of party and cabinet government, and the actual working of the constitution today.

Open to students who have completed one full course in History. Three hours a week for the second semester. MISS MOFFETT.

204. HISTORY OF ROME. This course offers a general survey of Roman History. The attempt is made to present the problems of recent scholarship in the study of the earlier period, but the main emphasis is placed upon the later Republic and the Empire. Particular attention will be given to economic and social conditions, and to the development of the Roman system of government.

Open to sophomores, juniors, and seniors who have completed one college course in History, or who are giving special attention to Latin or Greek or Economics. Three hours a week for a year. MR. SCRAMUZZA.

205. COLONIAL AMERICA. This course deals with the foundation and growth of the British empire in America. Emphasis is laid upon British colonial policy and administration, and upon the causes and course of the American Revolution.

Open to sophomores, juniors, and seniors who have completed or are taking a full course in History. Three hours a week for the first semester. MR. CURTIS.

207†. Geography of European History. (Not offered in 1929-30.) The object of the course is to strengthen the connection between events and localities, emphasizing the geographical setting of events already studied or to be studied in other courses in the department.

Open to all seniors, and to juniors and sophomores who have completed or are taking one full course in History, or Geography 208. Three hours a week for the first semester. Miss Moffett.

208. International Politics: the Near East. A general view of international relations in the Near East since the Congress of Berlin, with special reference to treaty settlements since 1918, and to present conditions.

Open to students who have completed one full course in History. Three hours a week for the first semester. Miss Miller.

209. Political History of Russia from the earliest times to the present. (Not offered in 1929-30.) This course includes a study of (1) the forces which made Russia a world power, (2) the development and policy of the autocracy, and (3) the struggle for freedom, culminating in the revolution of 1917, and (4) the existing régime.

Open to all seniors, and to juniors who have completed or are taking another course in History. Three hours a week for the second semester. Miss Orvis.

210†. Mediæval Life and Institution. (Not offered in 1929-30.) The aim of the course is to show the points of contact and of difference between the modern spirit and the mediæval, as well as to serve as a background for the study of modern history, or of mediæval art or literature. A few mediæval sources are read.

Open to students who have completed course 103. Three hours a week for a year. Miss Moffett.

213. History of England and Greater Britain. A general survey of English History with especial emphasis upon those political, social and economic forces which have led to the expansion of England and to the position and problems of the British Empire of today.

Open to sophomores, juniors and seniors who have completed one full course in History. Three hours a week for a year. Miss Appleton.

214. The Rise of the Latin-American Republics. After surveying the exploration and conquest of the New World by the Spaniards, this course treats Spanish colonial policy with a view to explaining the causes of the revolutionary movement. The latter part of the course is devoted to the wars of liberation and the emergence of the present republics.

Open to students who have completed course 103. Also open without prerequisite to sophomores, juniors, and seniors who are majoring in

†Course 207 will usually alternate with course 210.

Spanish, and to students who have completed or are taking Geography 304. Three hours a week for the second semester. MR. CURTIS.

215. INTERNATIONAL POLITICS: THE FAR EAST. A study of the Orient in the nineteenth and twentieth centuries, with special reference to the political and commercial interests of Europe and America.

Open to students who have completed one full course in History. Three hours a week for the second semester. MISS MILLER.

301. HISTORY OF THE UNITED STATES FROM 1787 TO THE PRESENT TIME. A study of the formation and development of the constitution of the United States, with special reference to controlling forces, such as the organization of parties, the growth of democracy, the rise of the slave power, the political effect of the development of the West.

Open to juniors and seniors who have completed one full course and have completed or are taking a second course in History. Three hours a week for a year. MR. CURTIS.

302†. EUROPE IN RENAISSANCE AND REFORMATION. A study of the intellectual, religious, and social life of the fifteenth and sixteenth centuries. In the first semester the Renaissance in Italy and France is emphasized, and in the second semester the Reformation and the Age of Elizabeth.

Open to juniors and seniors who have completed two full courses in History, or one course in History and two courses in Art. Three hours a week for a year. MISS MOFFETT.

304‡ ENGLAND UNDER THE TUDORS AND STUARTS. (Not offered in 1929-30.) This course deals with the Renaissance and Reformation in England, with Puritanism and the accompanying democratic ideals, with the constitutional struggles of the sixteenth and seventeenth centuries, and with those social and economic changes that were initial to the founding of the British Empire.

Open to juniors and seniors who have completed two full courses in History. Three hours a week for a year. MRS. HODDER.

305. DIPLOMATIC HISTORY OF EUROPE SINCE 1740. This course includes (1) a review of the period 1648-1740; (2) the age of Frederick II; (3) a Survey of the Revolutionary and Napoleonic period; (4) the age of Bismarck and its results.

Open to juniors and seniors who have completed two full courses in History. Three hours a week for a year. MISS ORVIS.

†Course 302 will usually alternate with Course 309. Both are offered in 1929-1930.

‡Course 304 will usually alternate with course 310.

306. Growth of the British Empire. (Not offered in 1929-30.) This course includes (1) a historical review of the development of the empire; (2) a study of the changes of colonial policy; (3) a study of colonial administration; and (4) a discussion of present colonial and imperial problems.

Open to juniors and seniors who have completed two full courses in History. Three hours a week for the first semester.

307. American Foreign Relations. This course deals with the most significant diplomatic problems which have arisen as the result of war, westward expansion, the growth of foreign commerce, immigration, and the acquisition of colonial possessions. The origin of important treaties, the development of the Monroe Doctrine, and the evolution of the United States into a world power will be traced.

Open to juniors and seniors who have completed two full courses in History. Three hours a week for a year. Mr. Curtis.

309†. Selected Studies in Mediæval History. The course is designed to give training in methods of historical research, using the mediæval period as a field.

Open to graduates, seniors, and approved juniors who have completed course 103 and one other full course in the department. Three hours a week for a year. Miss Moffett.

310‡. The Development of Thought from Classic Times through the Middle Ages: A Study of the Evolution of the Mediæval Mind. (Not offered in 1929-30.) This course treats of Greek thought and its expression, its transformation in Latin hands, the culture of the early Christian centuries, and the later development of the mediæval genius.

Open to juniors and seniors who have completed course 103 and one other three-hour course in History. Three hours a week for a year. Mrs. Hodder.

311. Social and Cultural History of Europe. (Not offered in 1929-30.) A course in the evolution of civilization, tracing the development of culture from early times through the rise of the Mediterranean civilizations, the Middle Ages, the Renaissance and modern times, and covering the more important phases of social, economic and intellectual life.

Open to juniors and seniors who have completed two full courses in History. Three hours a week for a year. Miss Williams.

†Course 309 will usually alternate with course 302. Both are offered in 1929-1930.

‡Course 310 will usually alternate with course 304.

350. DIRECTED READING. By consultation with the department, students may arrange for from one to three hours of individual work. Permission for this must be obtained before handing in electives.

Open to juniors and seniors who have taken or are taking a course of grade III in the department. One to three hours a week for a year. The amount of work contemplated must be indicated at the time at which electives are due.

Courses in Government

The courses in Government are arranged to meet the needs of three groups of students: those intending to do graduate work in Government or Law; those desiring to supplement their work in History, Economics, or Sociology with a knowledge of Government; students in other fields who wish to be prepared to take an intelligent part in the political activities of their communities after college.

206. INTRODUCTION TO GOVERNMENT. A survey of fundamental political conceptions, followed by a study of the governments of the United States, England, France, Germany and Russia. This course is designed to meet the needs of those who plan to take only one year's work in Government, also to serve as a foundation for more advanced courses.

Open to all seniors, and to juniors and sophomores who have completed or are taking History 103 or Economics 101. Three hours a week for a year. MISS OVERACKER.

308. HISTORY OF POLITICAL INSTITUTIONS. (Not offered in 1929-30.) This is an introductory course in the comparative study of the origin, character, development, and aim of political institutions.

Open to juniors and seniors who have completed two full courses in History. Three hours a week for a year.

317. LAW AND THE ADMINISTRATION OF JUSTICE. (Not offered in 1929-30.) The nature, sources, and sanction of law; fundamental principles of English and American jurisprudence; the organization of the courts; the judicial process; the jury system.

Open to juniors and seniors who have completed one full course and have completed or are taking a second course in History. For one History course a course in Economics may be substituted. Three hours a week for the first semester. MISS OVERACKER.

312†. CONSTITUTIONAL LAW IN THE UNITED STATES. The Constitution as interpreted by the Supreme Court. General principles will be

†Course 312 will alternate with Course 313.

developed through a study of the more important cases dealing with the division of powers between the national government and the states, taxation, interstate commerce, due process of law, and the police power.

Open to juniors and seniors who have completed one full course and who have completed or are taking a second course in History. For one course in History a course in Economics may be substituted. Three hours a week for the first semester. Miss Overacker.

313†. International Law. Nature and scope of international law and its relation to municipal law; the rights and duties of states in peace and war; international law and the League of Nations; international law and the World Court.

Open to juniors and seniors who have completed one full course and who have completed or are taking a second course in History. For one History course a course in Economics may be substituted. Three hours a week for the second semester. Miss Overacker.

314. Selected Problems in Government. (Not offered in 1929-30.) The course will deal with special problems from a comparative viewpoint. Such questions as the status and functions of second chambers, the position of the civil service, proportional representation, the government of dependencies, and international administration will be considered in the light of actual and proposed solutions in different countries.

Open to juniors and seniors who have completed two full courses in History. Three hours a week for a year.

315. Municipal Government and Administration. This course is designed to familiarize the student with the relation of the city to the state; the various types of city government; and with such administrative problems as the protection of life, health and property, education, raising and spending money, the control of public utilities, city planning.

Open to juniors and seniors who have completed one full course and have completed or are taking a second course in History. For one course in History a course in Economics or Sociology may be substituted. Three hours a week for the second semester. Miss Overacker.

316. Political Parties and Electoral Problems. The nature of political parties; party organizations, activities and campaign methods; reform movements; public opinion and party leadership; the true functions of parties; party responsibility.

Open to juniors and seniors who have completed one full course and have completed or are taking a second course in History. For one course in History a course in Economics or Sociology may be substituted. Three hours a week for the first semester. Miss Overacker.

350. Directed Reading. (See courses in History.)

†Course 313 will alternate with Course 312.

HYGIENE AND PHYSICAL EDUCATION

PROFESSORS: WILLIAM SKARSTROM, M.D., M.P.E.
EUGENE CLARENCE HOWE, PH.D.
RUTH ELLIOTT, PH.D. (CHAIRMAN.)
HEALTH OFFICER: MARY FISHER DEKRUIF, M.D.
ASSISTANT PROFESSORS: CHARLOTTE GENEVIEVE MACEWAN, B.S.
JOSEPHINE LANGWORTHY RATHBONE, M.A.
INSTRUCTORS: MARGARET JOHNSON.
FANNY GARRISON, B.A.
GERTRUDE JOYCE CRAN.
ELIZABETH BEALL, M.A.
ELEANOR DABOLL, B.A.
ASSISTANT: EMILY PERRY MACKINNON, B.A.
LABORATORY ASSISTANT: MARY ELIZABETH POWELL, B.A.
RECORDER: MARION DOROTHY JAQUES, B.A.
SECRETARY: ANNA ELIZABETH ANDERSON
SPECIAL LECTURERS: WILLIAM RUSSELL MACAUSLAND, M.D.
LECTURER ON ORTHOPEDICS.
ANDREW ROY MACAUSLAND, M.D.
LECTURER ON ORTHOPEDICS.
EDGAR M. NEPTUNE, M.D.,
LECTURER ON ORTHOPEDICS.
HILBERT F. DAY, M.D.,
LECTURER ON PELVIC HYGIENE.
EDWARD K. ELLIS, M.D.,
LECTURER ON VISUAL HYGIENE.
GLENN WILLIS LAWRENCE, D.M.D.,
LECTURER ON ORAL HYGIENE.
WILLIAM EMERSON PREBLE, B.A., M.D.,
LECTURER ON INTERNAL MEDICINE.
ABRAHAM MEYERSON, M.D.,
LECTURER ON MENTAL HYGIENE.
CALVIN B. FAUNCE, JR., M.D.,
LECTURER ON OTO-LARYNGOLOGY.
HARVEY PARKER TOWLE, M.D.,
LECTURER ON THE HYGIENE OF THE SKIN.

I. Courses Prescribed for the Certificate of the Department

(1) A two years' course especially designed for the training of teachers of hygiene and physical education and leading to the certificate of the Department of Hygiene and Physical Education is offered to graduates of approved colleges. In order to be admitted to this course candidates must be without organic disease or serious functional disorder. A keen sense of rhythm is necessary, and also the ability to use the voice with ease and power. Courses in Chemistry, Physics, Psychology and Education are essential. If only two of these are offered for admission, opportunity will be given in the first year to take Chemistry 101 or Physics 101, or Psychology 101 (first semester), and Education 201 (second semester).* Swimming proficiency sufficient to pass Red Cross or Intercamp Life Saving Tests.‡

(2) A five years' course is offered leading to the B.A. degree and the certificate of the Department of Hygiene and Physical Education. This course is open only to candidates for the B.A. degree in residence at Wellesley College. In general, students in this course receive the B.A. degree at the end of the fourth year and complete in the fifth year the work required for the certificate. The following courses may count toward the Bachelor's degree: course 301, 313, two hours; courses 302, 303, 321, 322, each three hours. (See page 105 for Directions for Candidates for the B.A. degree and for the Certificate of the Department.)‡

(3) Courses leading to the degree of M.S. in Hygiene and Physical Education may be completed while in residence for the certificate. (See Graduate Circular).‡

*See undergraduate courses in Chemistry, Physics, Psychology, Education.
‡See Bulletin of Graduate Department of Hygiene and Physical Education.

Required Courses for First-Year Graduate Students

101. GYMNASTICS. Marching—adaptation of modern *U. S. Army* marching. Elementary to fairly advanced free-standing exercises (including introduction to the Danish type). Elementary exercises on booms, ladders, ropes, rings, vaulting box, horse, buck, etc.

Required of first-year students. Three hours a week in the fall and five hours in the winter. DR. SKARSTROM, MISS BEALL.

102. TEAM GAMES AND SPORTS. Practice for skill, study of rules and of coaching methods with emphasis on individual technique; fall season—baseball, basket ball, and hockey; spring season—archery, speed ball, tennis, and track. Notebooks are required.

Required of first-year students. Six hours a week in the fall, eight hours in the spring. MISS CRAN, MR. HOWE, MISS GARRISON, MISS BEALL, MISS DABOLL.

104. DANCING. Elementary rhythmic work and dramatic play for small children; folk and national dances; clogs and character dances.

Required of first-year students. Two hours a week for a year. MISS MACEWAN, MISS CRAN, MISS BEALL.

105. INTERPRETATIVE DANCING. This course aims to make the individual capable of spontaneous and artistic expression through rhythmic movement. It includes a vocabulary of steps based upon the laws of natural movement; fundamental exercises and their application; elementary principles of composition; realization and appreciation of music through movement.

Required of first-year students. Two hours a week for a year. MISS MACEWAN.

110. PHYSICAL AND ORTHOPEDIC EXAMINATIONS. Purposes and technique of the physical examination; different forms of record cards, prescription for those needing "restrictive" or "corrective" assignments.

Required of first-year students. One hour a week for the second semester. MISS RATHBONE.

203. TECHNIQUE OF TEACHING GYMNASTICS. Lectures and quizzes on gymnastic terminology with a survey of gymnastic material, followed by preliminary practice teaching. Thorough drill on all technical devices of teaching.

Required of first-year students. Three hours a week for a year. DR. SKARSTROM.

208. PLAY ACTIVITIES. Psychology of play; use and selection of material for different age periods. Playground management and supervision. Study, demonstration and practice in methods of teaching the following: story plays, games of low and high organization, stunts, and social games.

Required of first-year students. Two hours a week for a year.
MISS BEALL.

212. INTRODUCTION TO THE STUDY OF PHYSICAL EDUCATION. A brief historical survey of physical education in Europe and America is used to show the relation between aims and current practice in physical education and the social needs and political ideals of different periods. Present-day objectives are discussed and the distinctive values of type activities are suggested.

Required of first-year students. One hour a week for the first semester.
MISS ELLIOTT.

301. MAMMALIAN ANATOMY. (Zoölogy 301 — See Department of Zoölogy and Physiology.)

313. MAMMALIAN ANATOMY. (Zoölogy 313 — See Department of Zoölogy and Physiology.) Zoölogy 203 will be accepted as an equivalent for course 313.

302. GENERAL PHYSIOLOGY. (Zoölogy 302 — See Department of Zoölogy and Physiology.)

303. KINESIOLOGY. Lectures and recitations dealing with the anatomical mechanism of movements; the rôles of joint motion, muscular action, gravity, leverage, inertia, and internal resistance in the production and modification of movements and their effects. This course counts three hours toward the Bachelor's degree.

Required of first-year students. Three hours a week for a year.
DR. SKARSTROM.

Required Courses for Second-Year Graduate Students

201. GYMNASTICS. Intermediate and advanced marching (all types), free-standing exercises (including Danish), and apparatus work.

Required of second-year students. Two hours a week in the fall and four hours in the winter. DR. SKARSTROM, MISS BEALL.

202. THEORY AND PRACTICE OF SPORTS AND TEAM GAMES. Advanced technique and tactics of team play in the activities offered in course 102

with the addition of lacrosse and soccer. Methods of coaching and officiating.

Required of second-year students. Seven hours a week in the fall and spring, with an additional hour of lecture and discussion once a week for the first semester. MISS CRAN, MR. HOWE, MISS GARRISON, MISS BEALL, MISS DABOLL.

205. ADVANCED INTERPRETATIVE DANCING. A continuation of course 105 with a study of adaptation for teaching purposes.

Required of second-year students. Two hours a week for the second semester. MISS MACEWAN.

206. PRACTICE IN TEACHING DANCING. Lectures and practice in teaching folk and interpretative dancing carried on in connection with further study of aims, and principles of adaptation.

Required of second-year students. Two hours a week for the first semester. MISS MACEWAN.

209. RECONSTRUCTIVE HYGIENE. Conditions which affect general health; application of hygiene, corrective exercise, and massage in treatment; study of first aid methods. Approximately 30 lectures in this course are given by orthopedic and medical specialists. Clinical demonstration of orthopedic material is given in the Carney Hospital, Boston, and other clinics.

Required of second-year students. Three hours a week for a year. MISS RATHBONE, DR. MACAUSLAND, AND OTHER LECTURERS.

214. PRACTICE TEACHING. Students assist in the college undergraduate required activities and carry on, under supervision, physical education in the public schools of Wellesley.

Required of second-year students. Eight to ten hours a week for the year. DR. SKARSTROM, MISS DABOLL, MISS RATHBONE, MISS CRAN, MISS BEALL.

304. PRINCIPLES AND PHILOSOPHY OF PHYSICAL EDUCATION AND METHODS OF TEACHING. (1) Study and discussion of the purposes, scope, and ideals of physical education; (2) the main groups of activities usually included in a program of physical education, with characterization and brief discussion of each; (3) general principles and methods of teaching applicable to all the activities and more detailed discussion of methods and technique of teaching gymnastics.

Required of second-year students. Two hours a week for a year. DR. SKARSTROM.

306. ORGANIZATION AND MANAGEMENT. The study of procedures upon which the teaching situation depends; i. e., analysis and selection of

activities, examination and grouping of pupils, testing the results of teaching, evaluation of the teacher or leader, provision of equipment, department organization. Illustrative problems are selected from those of elementary or secondary school and the college.

Required of second-year students. Two hours a week for the second semester. MISS ELLIOTT.

321. APPLIED PHYSIOLOGY. The application of human physiology to the problems of hygiene and physical education. Functional ability and achievement tests, nutritional standards. The elements of statistical method and precision of measurement. Advanced problems in nutrition and growth, fatigue, co-ordination and training. This course counts two or three hours toward the Master's degree.

Required of second-year students. Course 302 or its equivalent is prerequisite. For second-year students, candidates for the certificate, two periods of lecture and recitation and one three-period laboratory appointment a week, counting two hours a week for a year. For second-year students, candidates for the Master's degree, an additional seminar hour is required, counting an additional hour of credit for the Master's degree. MR. HOWE.

Elective Courses

107. SWIMMING. Instruction leading to the Red Cross certificates for Life Saving or for Life Saving Examiner.

Open to first and second-year students, and with the permission of the department to five-year students. Ten lessons during the winter.

216. MUSIC IN RELATION TO DANCING. The purpose of this course is to furnish the basis for an intelligent appreciation of musical composition from the standpoint of the dance. It includes discussion and application of the principles of interpretation with emphasis on ear training, fully illustrated with music throughout. No special technical knowledge of music is required.

Open to first and second-year students. One hour a week for the second semester. MISS JOHNSON.

317. PROBLEMS OF ORGANIZATION AND ADMINISTRATION. Organization and management studied by field trips, discussion, and library investigation. Records, reports and budgets, construction and upkeep of buildings and sports fields.

Open to second-year students registered in course 306. One hour a week for the second semester. MISS ELLIOTT.

322. HEALTH PROBLEMS OF SCHOOL AND COMMUNITY. The problems of growth, of health instruction, and environmental hygiene in the solution of which the teacher in physical education should be prepared to assist, advise or supervise. Three hours a week are devoted to lectures

and three to practical work, in which the students take active part in a school health program of measurement and instruction. This course counts three hours toward the Master's degree.

Open to students who have completed course 302 or 321. Three hours a week for a year. MR. HOWE.

323. SEMINAR IN HYGIENE AND PHYSICAL EDUCATION. (Not given in 1929-30.) Reading, investigation and reports on current problems in hygiene and physical education; conferences; presentation of one or more papers for discussion.

Open to second-year students. One or more semester hours. MISS ELLIOTT, MR. HOWE, DR. SKARSTROM.

II. Courses Open to All Undergraduates

Two hours in Hygiene and Physical Education are prescribed for the degree. One hour of this requirement is met by course 120; the second hour is met by four periods of physical education activities, two periods per week in the freshman year and two in the sophomore year.

Students are assigned to physical education activities on the basis of the results of their physical and medical examinations, and general motor test.

Each of the two years' work is divided into fall, winter and spring seasons. During the four sports seasons students must take two seasons of individual sports and two seasons of team sports, with the exception that students who can demonstrate fair skill in an individual sport may take three or more seasons of team sports; students who pass the general motor test have the elective privilege in the required winter physical education activities the first year; the elective privilege the second year depends on the grade obtained in the first year's work. See description of courses 121 and 122.

120. PERSONAL HYGIENE. The aim of this course is to present the principles of personal hygiene and public health and to develop their intelligent application to the daily living of college students and members of families and communities. Personal conferences are arranged for each student.

Required of freshmen. One hour a week for a year, counting one hour toward the degree. DR. DEKRUIF, MISS DABOLL.

121*. SPORTS AND INDOOR ACTIVITIES. (121F) In the fall, choice of basket ball, golf, hockey, riding, rowing, tennis, volley ball; (121W) in the winter, elementary gymnastics, and for those who have the elective privilege, choice of clogging and tumbling, folk dancing, interpretative dancing (elementary and intermediate), indoor games, riding; (121S) in the spring, choice of archery, baseball, dancing (outdoor), field and track athletics, golf, lacrosse, riding, rowing, tennis. As a substitute for

*In general, students are required to furnish their own individual equipment for such activities as archery, crew, interpretative dancing (costume approximately $6.80, including sandals), golf, hockey, lacrosse, riding and tennis. A special fee approximating $18 for each sports season, and $54 for the winter season, is required in riding. Written permission from the parents to elect riding, and special permission for jumping, must be filed with the Hygiene Recorder at the time of election.

121W, students whose physical condition indicates the need of corrective exercise are assigned to 124; of restricted exercise to 131.

Required of freshmen, two periods a week for a year, counting one-half hour toward the degree. MISS BEALL, MISS JOHNSON, MISS MACEWAN, MISS GARRISON, MISS RATHBONE, MISS CRAN, MISS DABOLL, MRS. MACKINNON, AND ASSISTANTS.

122*. SPORTS AND INDOOR ACTIVITIES. Continuation of work in the activities enumerated under 121 or the following substitutes for 121W: advanced gymnastics, open by examination to sophomores who have the elective privilege; advanced dancing, open to sophomores who have completed intermediate dancing. Students whose physical condition indicates the need of corrective exercise are assigned to 125; of restricted exercise to 132.

Required of sophomores who have completed course 121. Two periods a week for a year, counting one-half hour toward the degree.

MISS CRAN, DR. SKARSTROM, MISS JOHNSON, MISS MACEWAN, MISS GARRISON, MISS RATHBONE. MISS BEALL, MISS DABOLL, MRS. MACKINNON, AND ASSISTANTS.

124. CORRECTIVE EXERCISE AND APPLIED HYGIENE.

Required of freshmen whose physical condition indicates the need of individualized work. Two hours a week in the winter.

MISS RATHBONE, MISS GARRISON, AND ASSISTANTS.

125. CORRECTIVE EXERCISE AND APPLIED HYGIENE.

Required of sophomores whose physical condition indicates the need of individualized work. Two hours a week in the winter.

MISS RATHBONE, MISS GARRISON, AND ASSISTANTS.

126*. VOLUNTARY ACTIVITIES. (126F) Basketball, dancing (indoor), golf, hockey, riding, rowing, tennis, volley ball; (126W) indoor basket ball, clogging and tumbling, folk dancing, interpretative dancing (elementary, intermediate, advanced), indoor games, gymnastics (elementary, intermediate, and advanced), riding; (126S) archery, baseball, dancing (outdoor), field and track athletics, golf, lacrosse, riding, rowing, tennis.

Open to all students. One or two hours a week in the fall, winter or spring terms. Not to count toward the degree.

DR. SKARSTROM, MISS JOHNSON, MISS MACEWAN, MISS GARRISON, MISS RATHBONE, MISS CRAN, MISS BEALL, MISS DABOLL, MRS. MACKINNON, AND FIELD INSTRUCTORS.

*In general, students are required to furnish their own individual equipment for such activities as archery, crew, interpretative dancing (costume approximately $6.80, including sandals), golf, hockey, lacrosse, riding and tennis. A special fee approximating $18 for each sports season, and $54 for the winter season, is required in riding. Written permission from the parents to elect riding, and special permission for jumping, must be filed with the Hygiene Recorder at the time of election.

130. Applied Dancing. Fundamental exercises of dancing and their application to individual needs.

Open by permission to students whose physical condition indicates the need of individual work. Two hours a week in the winter.

Miss MacEwan.

131. Restricted Activities.

Required of freshmen whose physical condition indicates the need of restricted exercise. Two hours a week in the winter.

Miss Johnson, Mrs. Mackinnon.

132. Restricted Activities.

Required of sophomores whose physical condition indicates the need of restricted exercise. Two hours a week in the winter. Miss Johnson.

Directions for Undergraduates who are Candidates for the B.A. Degree and for the Certificate of the Department of Hygiene and Physical Education

Five years are required to complete the work for both degree and certificate. The work for the degree may be completed in four years.

A student may enter this five-year course at the beginning of her freshman, sophomore, or junior year. The College Recorder will furnish the student with a form to be presented to the Director of the Department, since permission to register for the five-year course must be obtained from the Director by each applicant. By the end of the sophomore year a student should have completed Hygiene and Physical Education 120, 121, 122, Biblical History 101.2, Chemistry 101, Philosophy 101.2, Physics 101, the prescribed courses in English Composition, Reading and Speaking, or should offer satisfactory equivalents. A full major in Zoölogy is an advantage. The work for the last three years is as follows:

Junior Year: Courses 101, 102, 105, 110, 212, and 301, 313 (Zoölogy 301, 313). Course 302 (Zoölogy 302) may be taken in the junior or in the senior year. Courses 301, 302, 313 count toward the B.A. degree and a major in Zoölogy.

Senior Year: Courses 104, 126, 203, 208, 303, and 302 (Zoölogy 302), if not completed in junior year. Courses 302 and 303 count toward the B.A. degree and course 302 toward a major in Zoölogy.

Education 201 is required and should ordinarily be taken in the junior year. Courses in French, German, Economics, Psychology and Bacteriology are advised.

Fifth Year: Courses 201, 202, 205, 206, 209, 214, 304, 306, and 321. Course 322 may be elected and counts three hours toward the M.S. degree.

Course 321 (required) may count two or three hours toward the M.S. degree.

Students are referred to the Bulletin of the Graduate Department of Hygiene and Physical Education.

ITALIAN

PROFESSOR: MARGARET HASTINGS JACKSON (CHAIRMAN.)
INSTRUCTOR: ANGELENE LA PIANA, M.A.

101‡. ELEMENTARY COURSE. Grammar, with written and oral exercises; reading and sight translation; conversation.

Open to students who do not present Italian for admission. Three hours a week for a year. MISS JACKSON, MISS LA PIANA.

201. INTERMEDIATE COURSE. Grammar, prose composition; reading and translation at sight from modern authors; class discussion and reports on the books read.

Open to students who have completed course 101 or equivalent. Three hours a week for a year. MISS LA PIANA.

202. SURVEY COURSE IN ITALIAN LITERATURE. (Not offered in 1929-30.) The course attempts to give a survey of Italian literature by means of lectures, reading, class discussion and papers.

Open to students who have completed course 101 or equivalent. Three hours a week for a year. MISS JACKSON.

203. THE ITALIAN DRAMA BEFORE ALFIERI. After dealing briefly with the beginnings of the Italian theatre the course passes to the Pastoral Drama, the *Commedia d'Arte* and Goldoni.

Open on consultation with the instructor to juniors and seniors who have had one or more courses in the department. Three hours a week for the first semester. MISS JACKSON.

204. THE ITALIAN DRAMA SINCE GOLDONI. Alfieri, the Classical and Romantic schools; the Naturalists and the Futurists.

Open on consultation with the instructor to juniors and seniors who have had one or more courses in the department. Three hours a week for the second semester. MISS JACKSON.

301*. HISTORY OF ITALIAN LITERATURE IN THE THIRTEENTH AND FOURTEENTH CENTURIES. EMPHASIS ON DANTE. (Not offered in 1929-30.)

‡Italian 101 may not be counted toward the B.A. degree, if taken after the junior year.

*See note on page 107.

Selections from the *Vita Nuova* and the *Divina Commedia* of Dante, the Sonnets of Petrarch and the Tales of Boccaccio will be read in the original.

Open on consultation with the instructor to juniors and seniors who have completed or are taking course 201. Three hours a week for a year. MISS JACKSON.

NOTE.—The Dante Society offers an annual prize of one hundred dollars for the best essay on a subject drawn from the life or works of Dante. The competition is open to students or graduates of not more than three years' standing from colleges or universities in the United States. For subjects and conditions consult page 397 of the Harvard University Catalogue, 1928-29.

302. HISTORY OF ITALIAN LITERATURE IN THE NINETEENTH CENTURY. (Not offered in 1929-30.)

Open to juniors and seniors who have completed or are taking course 201. Three hours a week for a year. MISS JACKSON.

303*. ITALIAN PROSE WRITERS OF THE FIFTEENTH AND EARLY SIXTEENTH CENTURIES. Selections from the works of Machiavelli, Castiglione, Savonarola and other writers of the period will be read in the original, class discussion and papers.

Open on consultation with the instructor to juniors and seniors who have completed or are taking course 201 or 202. Three hours a week for the first semester. MISS JACKSON.

304*. ITALIAN POETS OF THE FIFTEENTH AND EARLY SIXTEENTH CENTURIES. Selections from Poliziano, Lorenzo de' Medici, Boiardo, Ariosto, Michael Angelo, Vittoria Colonna will be read in the original, class discussion and papers. While courses 303 and 304 are continuous, one being the complement of the other, they may be elected separately.

Open on consultation with the instructor to juniors and seniors who have completed or are taking course 201 or 202. Three hours a week for the second semester. MISS JACKSON.

*It will be the privilege of students in courses 301, 303, and 304 to have access to the manuscripts and early—often contemporary—editions of Italian authors contained in the Frances Pearsons Plimpton Collection.

LATIN

PROFESSORS: ALICE WALTON, PH.D. (CHAIRMAN.)
CAROLINE REBECCA FLETCHER[9], M.A.
ASSOCIATE PROFESSOR: ANNA BERTHA MILLER, PH.D.
ASSISTANT PROFESSOR: HELEN HULL LAW, PH.D.
INSTRUCTOR: BARBARA PHILIPA MCCARTHY, PH.D.
ASSISTANT: MARTHA MAYNARD, B.A.

101. INTRODUCTION TO LATIN LITERATURE. A brief survey of the literature illustrated by short passages from representative authors, and a more detailed study of certain masterpieces. Prose: Cicero, *Essay on Old Age* or on *Friendship;* selections from the correspondence of Cicero, Seneca or Pliny; Livy, selections from Books I and XXI. Poetry: illustrative selections from Ennius and Lucretius; Lyrics of Catullus and of Horace; Epigrams of Martial; one comedy of Terence.

Open to students who present four units in Latin for admission, or have completed course 103. Three hours a week for a year.

MISS WALTON, MISS FLETCHER, MISS MCCARTHY.

102. CONTRIBUTIONS OF LATIN LITERATURE TO MODERN LIFE AND THOUGHT. The study of passages in Latin authors embodying certain fundamental ideas which are a part of the classical heritage of modern life. The reading and class discussion will center about topics suggested in such current terms as *imperial destiny, citizenship, nationalism,* the *State Church, humanism,* etc. The readings will be selected from Cicero, Horace, Livy, Ovid, Vergil, and other authors.

Open to students who present four units in Latin for admission, or have completed course 103. Three hours a week for a year.

MISS MILLER.

103. SELECTED READINGS IN THE POETRY AND PROSE OF THE GOLDEN AGE OF LATIN LITERATURE. Social life in Rome in Cicero's time.

Open to students who present only three units in Latin for admission. Three hours a week for a year. MISS MAYNARD.

201. HORACE. The *Odes* are studied, with selections from the *Epistles.*

Open to students who have completed course 101 or 102, and by permission of the department to qualified juniors and seniors without prerequisite. Three hours a week for the first semester. MISS MILLER.

202. VERGIL. Selections from the *Bucolics, Georgics,* and *Æneid, VII-XII.*

Open to students who have completed course 101 or 102, and by permission of the department to qualified juniors and seniors without prerequisite. Three hours a week for the first semester.

MISS FLETCHER.

[9]Absent on Sabbatical leave for the second semester.

204. TACITUS AND PLINY. Tacitus, *The Agricola*, and selections from the Histories. Pliny's *Letters*. The work in Pliny includes careful study of certain letters and the rapid reading of many others.

Open to students who have completed a semester course of grade II. Three hours a week for the second semester. MISS MILLER.

206. LATIN WRITING.

Open to students who have completed a course of grade I. One hour a week for a year. MISS MCCARTHY.

208. ROMAN LIFE AND CUSTOMS. (Not offered in 1929-30.) Lectures, illustrated by photographs and lantern slides, on subjects connected with the daily life and surroundings of the Romans, such as family life, dress, education, buildings, roads, travel, social functions, amusements, religious customs, etc. The required reading will be mainly in English.

Open to juniors and seniors without prerequisite, and to sophomores who have completed course 101 or 102. Three hours a week for the first semester. MISS MILLER.

209. STUDIES IN THE PROSE STYLE OF THE CLASSICAL PERIOD. The object of this course is to train students to observe and appreciate the peculiar genius of the Roman language as a medium for narration and exposition, by critical study of illustrative texts and by writing in part based upon them, and in part independent of them. The readings will vary from year to year. For 1929-30, the emphasis will be upon the epistolary and narrative styles of Cicero, Pliny the Younger, and Livy.

Open to students who have completed course 101 or 102. Three hours a week for the second semester. MISS LAW.

211. MEDIÆVAL LATIN. Readings from Latin writers in the fields of literature, history and philosophy of the Middle Ages. Selections include Cassiodorus, Gregory the Great, Bede, Geoffrey of Monmouth, John the Scot, Erasmus, Abelard, the chroniclers of the Crusades, the romancers of the *Gesta Romanorum*, religious drama, songs of the Goliards, and church hymns. Only so much attention will be given to linguistic study as the reading requires.

Open to students who have completed one full course in the Latin Department, and to juniors and seniors who present four units in Latin for admission and who are giving special attention to Mediæval Art, History, or Literature. Three hours a week for the second semester.

MISS MILLER.

301. COMEDY. PLAUTUS AND TERENCE. This course includes the careful study of two or more plays followed by the rapid reading of others.

Open to students who have completed two full courses. Three hours a week for the first semester. MISS WALTON.

302. SATIRE. HORACE AND JUVENAL. This course includes the reading of selected satires of Horace and Juvenal, with study of other Roman satirists by lectures and special topics. Sight reading in Martial.

Open to students who have completed two full courses. Three hours a week for the second semester. MISS WALTON.

303. LATIN EPIGRAPHY. (Not offered in 1929-30.) Selected inscriptions will be studied both for their content as sources for the study of Roman public and private life, and their form. Sandys' Latin Inscriptions and facsimiles will be used.

Open to students who have completed two full courses. Three hours a week for the first semester. MISS WALTON.

304. TOPOGRAPHY OF ROME. Studies in the material surroundings of the Romans: the development of the city; the construction, decoration and furnishings of typical public and private buildings in Rome and provincial towns.

Open to students who have completed three full courses. Three hours a week for the first semester. MISS WALTON.

305. LIVY: HISTORY OF EARLY ROME. (Not offered in 1929-30.) Study of the sources of the early history of the Roman Republic. Lectures and collateral reading.

Open to students who have completed two full courses. Three hours a week for the first semester. MISS FLETCHER.

306. STUDIES IN ROMAN RELIGION. (Not offered in 1929-30.) Study of the private cult will precede that of the institutions of the State religion. The chief emphasis will be upon the Roman republican period, but the influence of the Oriental cults of imperial times will be presented in special topics.

Open to students who have completed two full courses. Three hours a week for the second semester. MISS FLETCHER.

307. LATIN LITERATURE OF THE EARLY CHRISTIAN PERIOD. Readings from the Early Christian Apologists and Fathers illustrating the contact of Christian ideals with Pagan thought and civilization. Latin Hymns. This course may count as an elective in the Department of Biblical History.

Open to students who have completed two full courses. Three hours a week for the first semester. MISS MILLER.

308. LATIN WRITING. Advanced Course.

Open at the discretion of the instructor to students who have completed course 206 or 209. Two hours a week for the first semester. MISS FLETCHER.

309. LITERATURE OF THE ROMAN EMPIRE: PROSE. The aim of this course is to secure an acquaintance with many representative authors of the Roman Empire, and to show the interest and the value of the "Silver Latinity" and the writers of the later Imperial Period. The readings will vary from year to year. In 1929-30, the emphasis will be on fiction and history, with special attention to Petronius, Apuleius and Tacitus. Rapid reading without translation is one of the features of this course.

Open to students who have completed three full courses. Three hours a week for the second semester. MISS WALTON.

310. SURVEY OF LATIN POETRY. Poetry of the Republic. Some study is given to the beginnings of Latin poetry and the earlier poets, but the main emphasis is placed upon the poets of the Ciceronian Age, Catullus and Lucretius.

Open to students who have completed three full courses. Three hours a week for the first semester. MISS FLETCHER.

311. READINGS FROM THE PHILOSOPHICAL WORKS OF CICERO AND SENECA. (Not offered in 1929-30.)

Open to students who have completed two full courses. Three hours a week for the first semester. MISS FLETCHER.

312. SURVEY OF LATIN POETRY. Poetry of the Empire. The aim of this course is to secure an acquaintance with representative poets of different periods, and to show the interest and the value of the later Latin poetry. Rapid reading without translation is one of the features of this course.

Open to students who have completed three full courses. Three hours a week for the second semester. MISS MILLER.

321. OUTLINE HISTORY OF LATIN LITERATURE. (Not given in 1929-30.) The design of this course is to enable a graduate student to study the authors and periods and forms of literature which were not included in her undergraduate work, and thus to complete the work done in individual courses by a comprehensive view of Latin literature as a whole and its place in world literature. The course demands much independent work and is intended to meet individual needs.

Open to graduate students only. One to three hours a week for a year. MISS WALTON.

MATHEMATICS

PROFESSORS: HELEN ABBOT MERRILL, PH.D.
CLARA ELIZA SMITH, PH.D.
ASSOCIATE PROFESSORS: MABEL MINERVA YOUNG, PH.D.
LENNIE PHOEBE COPELAND, PH.D.
ASSISTANT PROFESSORS: MARY CURTIS GRAUSTEIN[3], PH. D.
MARION ELIZABETH STARK, PH.D.

106. TRIGONOMETRY, HIGHER ALGEBRA, ANALYTIC GEOMETRY. Trigonometric equations and transformations, including the use of inverse functions and radian measure; graphs of the trigonometric functions; solution of oblique triangles; differentiation of algebraic and trigonometric functions; theory of equations; the elements of Analytic Geometry, including the study of the conic sections.

Open to students who present three units in Mathematics for admission. Three hours a week for a year. MISS SMITH, MISS YOUNG. MISS COPELAND, MISS STARK.

107. HIGHER ALGEBRA AND ANALYTIC GEOMETRY. Determinants; derivatives of algebraic and trigonometric functions; theory of equations; the elements of Analytic Geometry, including the study of the conic sections and of other curves.

Open to students who present four units in Mathematics for admission, or have had a course in Trigonometry equivalent to that outlined by the College Entrance Examination Board. Three hours a week for a year. MISS COPELAND.

201*. ANALYTIC GEOMETRY AND CALCULUS. The more elementary parts of Analytic Geometry and Calculus.

Open to students who have completed course 104 or 102 (see Calendar 1928-29.) *Three hours a week for a year.* MISS MERRILL, MISS SMITH.

202. DIFFERENTIAL AND INTEGRAL CALCULUS. The applications include a course in curve tracing.

Open to students who have completed course 103 (see Calendar 1928-29), *or course 106 or 107. Three hours a week for a year.* MISS SMITH.

203†. HISTORY OF ELEMENTARY MATHEMATICS. The evolution of the fundamental concepts of mathematics. Great mathematicians and their chief contributions to elementary mathematics. A brief survey of modern developments in mathematics and its literature. A standard text is used,

[3]Absent on leave.
*This course will not be offered after 1929-30.
†This course will be offered in alternate years only.

supplemented by lectures and short reports, chiefly based upon rare old books in the mathematical library.

Open to students who have completed or are taking course 201 or 202. Three hours a week for the second semester. MISS COPELAND.

204. INTRODUCTION TO THE THEORY OF STATISTICS. Statistical methods, with special emphasis on the use of elementary mathematics in the development of theory and in practice.

Open to students who have completed course 103 or 104 (see Calendar 1928-29), *or course 106 or 107. One period of lecture with the equivalent of one laboratory period a week, counting one hour a week for a year.* MISS YOUNG.

206. DESCRIPTIVE GEOMETRY. The theory and practice of the representation of geometric figures. The use of two or more planes of projection in representing lines, surfaces, and solids. Intersections and shadows.

Open to students who have completed or are taking a three-hour course of grade II in Mathematics; and by special permission to a limited number who have completed course 103 (see Calendar 1928-29), *or course 106 or 107. All must have a knowledge of the elements of Solid Geometry. One period of lecture with one period of laboratory a week, counting one hour a week for a year.* MISS STARK.

207‡. THEORY AND CONSTRUCTION OF GEOMETRIC MODELS. (Not given in 1929-30.) Theory of polygons and polyhedra, with constant practice in the construction of models.

Open to students who have completed or are taking course 201 or 202. One hour a week for a year.

301. CALCULUS AND ITS APPLICATIONS. The applications include a study of curves and space forms, and simple problems in mechanics and differential equations.

Open to students who have completed course 201. Three hours a week for a year. MISS COPELAND.

302. HIGHER ANALYSIS. Differentiability and integrability of functions, continuity, convergency of series, representation of functions by power series, theory of integration, infinite integrals, elliptic integrals, Fourier series, and other allied subjects.

Open to students who have completed course 202 or 301. Three hours a week for a year. MISS MERRILL.

‡This course will not be offered in 1930-31.

303*. DIFFERENTIAL EQUATIONS. An introductory course in ordinary and partial differential equations.

Open to students who have completed course 202 or 301. Three hours a week for the first semester. MISS STARK.

304. INTRODUCTION TO MODERN ALGEBRAIC THEORY. Determinants, matrices, systems of linear equations, symmetric functions, eliminants, resultants, discriminants, invariants and covariants, quadratic forms.

Open to students who have completed course 202 or who have completed or are taking course 301. Three hours a week for the second semester. MISS STARK.

306. MODERN SYNTHETIC GEOMETRY. Metrical and projective properties of plane and sheaf forms of the first and second orders; the anharmonic ratio; harmonic forms; the method of inversion; involution; the law of duality; theory of poles and polars; reciprocation; space forms and surfaces of the second order. Given by lectures and references, with constant practice in the solution of geometrical problems.

Open to students who have completed course 202 or who have completed or are taking course 301. Three hours a week for a year. MISS YOUNG.

307. ADVANCED GEOMETRY. (Not given in 1929-30.) An introduction to the study of higher plane curves. Both algebraic and synthetic methods will be used. The theory of the conic will be extended, and curves of the third order systematically studied. Lectures, reading and discussion.

Open to students who have completed course 306, and have completed or are taking course 301, 302, 303,4 or 308. Three hours a week for a year. MISS YOUNG.

308. FUNCTIONS OF A COMPLEX VARIABLE. Elementary treatment of analytic functions. Infinite series and products, with applications to beta, gamma, and elliptic functions.

Open to students who have completed course 202 or 301. Three hours a week for a year. MISS SMITH.

*Physics 305, if preceded by Mathematics 303, may be counted toward a major in Mathematics.

MUSIC

PROFESSOR: CLARENCE GRANT HAMILTON, M.A. (CHAIRMAN.)
ASSOCIATE PROFESSOR: HOWARD HINNERS[2], B.A.
ASSISTANT PROFESSOR: HELEN JOY SLEEPER, MUS.B., M.A.
LECTURER: LOWELL PIERSON BEVERIDGE, M.A.
DIRECTOR OF CHOIR.
ASSISTANT: JEAN MATILDA KING, B.A.

For list of Instructors in Practical Music, see page 118.

The Wellesley College Choir of eighty members, founded in 1900, furnishes the music for the Sunday services in the Memorial Chapel and gives two or more secular concerts during the year. Any student with a good natural voice is eligible for membership; trials to fill vacancies are held at the opening of each college year.

The College Symphony Orchestra, consisting of about thirty student and faculty members, was founded in 1906. It offers advantages of competent instruction in ensemble playing under a professional conductor. It gives at least one concert each year. Any members of the College who have sufficient technique are admitted to membership.

A limited number of tickets for reserved seats at the concerts of the Boston Symphony Orchestra in Symphony Hall, Boston, is free to students in the department who are able to use them profitably.

I. Musical Theory

The courses in theory and history are open to all students without regard to previous musical knowledge, and count toward the B.A. degree. The history and theory courses are subject to no separate tuition fee, with the exception of courses 202 and 303, where a nominal fee of five dollars is charged for tuning and repairs of instruments. Courses 206, 305, 306, 307, 308, 313 and 314 are designed especially for those students who desire to gain an appreciative knowledge of musical literature.

101*. ELEMENTARY HARMONY. This course offers a foundation for subsequent work in practical or theoretical music. First semester: Study of notation, scales, intervals, formation of chords, with emphasis on sight-singing and melodic dictation. Second semester: A study of harmony through triads and their inversions and the dominant seventh chord, with emphasis on writing and harmonic dictation.

Open to students who do not offer Harmony for admission. Required of all freshmen who elect practical music. Three hours a week for a year.

MISS SLEEPER.

103. INTERPRETATION. This course is a training in the principles of interpretation, developed through the performance in class of music studied with the private teacher and by listening to and analyzing compositions performed by others. Subjects considered include composers,

[2]Absent on leave.

*Physics 205, if preceded by Musical Theory 101, may be counted toward a major in Musical Theory.

form, melody, and accompaniment, tempo and rhythm, texture and general style.

Open to sophomores, juniors, and seniors who are at the same time taking lessons in practical music in the department and who have acquired a satisfactory degree of skill. Students may elect practical music without electing the course in interpretation, but no one may elect the course in interpretation without at the same time electing practical music. A list of students eligible to this course is posted when the elective circular is issued, each spring. One hour a week for a year. MR. HAMILTON.

201. ADVANCED HARMONY. This course is the natural continuation of course 101. It covers the various classes of non-harmonic tones, inversions, chords of the seventh, ninth and thirteenth, and elementary modulation. The course aims to give facility in straightforward four-part writing for voices and for string quartet.

Open to students who have completed course 101 or its equivalent. Three hours a week for a year. MR. BEVERIDGE.

202. APPLIED HARMONY. (Not offered in 1929-30.) This course aims to realize synthetically at the piano the principles taught in course 201, following what may be termed a laboratory method.

NOTE.—Instruction will be given in small classes of not less than three students. The course is in no sense a substitute for pianoforte lessons. Students must satisfy the chairman of the department that they have a piano technique adequate for the work.

Open only to those students who are taking or have completed course 201. Two hours a week for a year. MISS SLEEPER.

206. HISTORY OF MUSIC. Lectures and discussions on the history of music, from its earliest beginnings to the present. The course is non-technical and no previous knowledge of music is required.

Open to juniors and seniors, and to sophomores who have had one course in the department. Three hours a week for a year.

MR. HAMILTON.

301. COUNTERPOINT. Counterpoint in two, three and four voices; double and imitative counterpoint; analysis.

Open to students who have completed course 201. Three hours a week for a year. MR. BEVERIDGE.

303. APPLIED COUNTERPOINT. (Not offered in 1929-30.) This course aims to realize synthetically at the piano the laws of simple and double counterpoint by the constant playing and analysis of the best examples from the masters. See note to course 202.

Open to those students only who are at the same time taking course 301. Two hours a week for the first semester. MR. BEVERIDGE.

304. Canon and Fugue. (Not given in 1929-30.) Canon at the chief intervals; fugue in two, three and four voices; analysis.

Open to graduate students, or to approved undergraduates who have completed course 301. Three hours a week for a year. Mr. Hinners.

305. Development of Music through the Classic Period. First semester: The evolution of rhythm, harmony and melody. Mediæval and Renaissance music, including the study of Gregorian chant and vocal polyphony. Second semester: Rise and development of instrumental forms, especially the fugue, suite, sonata and symphony.

Open to students who have completed course 201, or the sequence 101,206. Three hours a week for a year. Miss Sleeper.

306. Beethoven and Wagner. (Not offered in 1929-30.) An intensive course devoted to the analyses of selected pianoforte sonatas, chamber music and the symphonies of Beethoven, his opera "Fidelio," and the operas of Wagner. The aim of the course will be to give an intimate knowledge of the two composers' works and to estimate their place in musical history.

Open to students who have completed course 201, or the sequence 101,206. Three hours a week for a year. Mr. Hamilton.

307. Schubert and Schumann. An illustrated lecture course, intensive in character, devoted to the study of the principal works of the composers named. The romantic movement in music, the development of the German Song, the poetic and lyric piano piece and the birth of musical criticism are among the principal topics treated. The work of the class will be based mainly upon assigned readings and critical papers.

Open to students who have completed course 201, or the sequence 101,206. Three hours a week for the first semester. Mr. Hamilton.

308. Mendelssohn and Chopin. An illustrated lecture course, intensive in character, devoted to the study of the principal works of the composers named. The beginnings of modernism, the culmination of sacred music in the oratorio, the age of the virtuoso, the development of instruments, and individual and emotional treatment in music are the principal topics studied. The work of the class will be based mainly upon assigned readings and critical papers.

Open to students who have completed course 201, or the sequence 101,206. Three hours a week for the second semester. Mr. Hamilton.

310. Free Composition. (Not offered in 1929-30.)

Open by permission to students who have completed course 301. Three hours a week for a year. Mr. Hinners.

312. CRITICAL STUDIES IN MUSICAL HISTORY. (Not offered in 1929-30.) The course attempts to give training in musical investigation. To each student will be assigned some special problem in musical history, musical criticism, musical form, or the like, on which she reports progress from week to week in the seminar.

Open to graduates and to approved seniors who have completed courses 102 and 201, or their equivalent. Three hours a week for a year.

MR. HAMILTON.

313. DEVELOPMENT OF SYMPHONIC MUSIC SINCE BEETHOVEN. A study of the chief tendencies in the treatment of the larger instrumental forms during the nineteenth century, leading up to the consideration of the modern schools.

Open to students who have completed course 201, or the sequence 101,206. Three hours a week for the first semester. MISS SLEEPER.

314. DEVELOPMENT OF DRAMATIC MUSIC. The progress of sacred and secular forms used in dramatic music from the opening of the seventeenth century to the present. Intensive study will be made of a few representative works.

Open to students who have completed course 201, or the sequence 101,206. Three hours a week for the second semester. MISS SLEEPER.

II. Practical Music (Instrumental and Vocal Lessons)

INSTRUCTORS IN PRACTICAL MUSIC: CLARENCE GRANT HAMILTON, M.A. (PIANO).
EMILY JOSEPHINE HURD (PIANO).
BLANCHE FRANCIS BROCKLEBANK (PIANO).
JEAN EVELYN WILDER, B.A. (PIANO).
JACQUES HOFFMANN (VIOLIN).
RAYMOND CLARK ROBINSON, MUS.B. (ORGAN).
JEAN HASTINGS MACDONALD (VOICE).

Attention is called to the fact that a student need not necessarily spend five years in college in order to carry on practical music at the same time with the academic course. See *(a)* following.

It is believed that students having a command of piano or organ technique will be able to profit by the theoretical instruction given in the department to a fuller degree than those without such a technique. To encourage students to acquire a technique, as well as to furnish authoritative instruction, the department undertakes to give lessons in piano, organ, and violin playing, and in singing. Attention is called to the fact that students who elect Musical Theory 103 are thereby obtaining one hour's credit toward the B.A. degree in connection with work done in practical music. This work is offered to all students, whether candidates for degrees or not, as stated below:—

(a) Candidates for the B.A. degree who propose to spend but four years in college may take practical music, provided that they obtain each

year the permission of the Dean as well as of the Chairman of the Department. They must also take a full course in Musical Theory, unless they have completed two two-hour or three-hour courses in the subject.

(b) Candidates for the B.A. degree *who are willing to devote five years to the college course* will be permitted to take practical music each year of the course, governed by the restriction laid down in *(a)*.

(c) Candidates for the B.A. degree who wish also the *Certificate of the Department of Music* should plan to devote *five years to the college course*. Such students are required to take practical music, two lessons a week, throughout the five years. They must complete, satisfactorily to the department, a course in the literature of the instrument chosen or of the voice; they must apply for the certificate at least three years in advance. The study of Musical Theory is required throughout the course.

(d) Students not candidates for the B.A. degree *who desire to specialize in music* must meet the requirements prescribed for admission to the freshman class, and must in addition pass an entrance examination in Harmony. Special students must take both Musical Theory and vocal or instrumental lessons, two a week, with not less than twelve hours of weekly practice. They must also take from six to nine hours per week of academic work, including Musical Theory, as may be decided in consultation with the Dean.

(e) Students not candidates for the B.A. degree who wish the *Certificate of the Department of Music* must comply with the conditions laid down in *(d)*; moreover, the academic work taken must include modern languages. Such students must apply for the certificate on entering the department, and must have already acquired the fundamental technique of the instrument chosen or of the voice. The time occupied in study for the certificate depends upon the talent, upon the proficiency of the student at entrance, and upon her subsequent diligence; but in general four years at least are necessary. The various courses are so arranged that the pupil on completion will have an acquaintance with the best musical literature.

(*f*) Graduates of Wellesley College or of similar institutions may make special arrangement for instrumental or vocal lessons.

(*g*) Permission to practice in Music Hall cannot be given to students not regularly registered in the department.

(*h*) Students whose progress is not satisfactory may be required to discontinue their lessons.

PHILOSOPHY AND PSYCHOLOGY

PROFESSORS: ELEANOR ACHESON MCCULLOCH GAMBLE, PH.D. (CHAIRMAN.)
THOMAS HAYES PROCTER, PH.D.
ASSOCIATE PROFESSORS: MICHAEL JACOB ZIGLER, PH.D.
FLORA ISABEL MACKINNON, PH.D.
INSTRUCTOR: DOROTHEA ELIZABETH JOHANNSEN, PH.D.
READER IN PHILOSOPHY: GRACE ALLERTON ANDREWS, M.A.
ASSISTANTS: HELEN HOOD TAPLIN[7].
KATHERINE LAURA O'BRIEN, B.A.
ELIZABETH NICHOLS DONOVAN, B.A.
CHRISTINE MARGARET MORGAN[6], B.A.
THELMA GORFINKLE, B.A.

If Philosophy and Psychology are chosen to meet the requirement for the degree, courses 101 and 102 must be elected and should preferably be taken in the same year.

I. Logic

208. LOGIC. Training in argument and in logical criticism. Work expressly designed to meet the practical needs of the student. The course deals not only with the principles of deductive logic, but also with elementary questions of observation and testimony, and of scientific, statistical, and legal evidence. Text-book: Robinson, *The Principles of Reasoning.*

Open to students who have completed course 101 or 102 in this department, or course 104 or 103 in Mathematics (see Calendar 1928-29), *or course 106 or 107 in Mathematics. Three hours a week for the second semester.* MISS GAMBLE.

II. Psychology

For description of the Psychology Laboratory, see page 156.

101. INTRODUCTORY COURSE IN PSYCHOLOGY. This course aims to secure to students an acquaintance with the fundamental facts of the science, to provide a psychological basis for their study of philosophy, of sociology, and of education, and to fit them for more advanced psychological work. Among the texts used are Gamble, *Outline Studies in the Fundamentals of Psychology;* Calkins, *A First Book in Psychology;* Smith and Guthrie, *General Psychology;* Dashiell, *Fundamentals of Objective Psychology.*

Open to sophomores, juniors, and seniors. Three hours a week for a semester; offered in both semesters.

Lecture Divisions B and C, MISS GAMBLE;
Divison A, MR. ZIGLER.
Conferences, MISS GAMBLE, MR. ZIGLER, MISS JOHANNSEN, MISS O'BRIEN, MISS MORGAN.

[6]Appointed for the first semester only.
[7]Appointed for the second semester only.

209. EXPERIMENTAL PSYCHOLOGY, LABORATORY COURSE. Every student is expected to perform one or two typical experiments in each of the main fields of psychological investigation. The experimental work will be supplemented and interpreted by conferences. This course is designed to train the student in psychological method.

Open to students who have completed course 101. Six periods a week of laboratory work, counting three hours a week for the first semester.
MR. ZIGLER, MISS JOHANNSEN, MISS O'BRIEN, MISS MORGAN.

210. EXPERIMENTAL PROBLEMS IN PSYCHOLOGY. This course consists of investigation of special problems by individual students. In 1929-30 problems may be chosen in the following subjects: visual, auditory, tactual and olfactory sensation, association, memorizing, attention, and choice. The methods employed are wider than the problems and are adapted to training students in the fundamental demands of research.

Open to students who have shown in course 209 an aptitude for laboratory work. Five or six laboratory periods a week, including one or two with instructor, counting three hours a week for the second or, by special permission, for the first semester.
MR. ZIGLER, MISS GAMBLE, MISS JOHANNSEN.

207. GENETIC PSYCHOLOGY. This course deals with such topics as the comparative learning ability of animals and man, unlearned versus acquired traits, diversities of human nature, the salient mental features of the several stages of human development, and the progressive development of certain traits from initial manifestation to maturity.

Texts: Koffka, *The Growth of the Mind;* Gesell, *Mental Growth of the Pre-school Child.* Supplementary references.

Open to seniors, juniors, and by permission to sophomores, who have completed course 101. Three hours a week for the second semester.
MR. ZIGLER.

212. DIFFERENTIAL PSYCHOLOGY. The course deals with the differences between one human being and another in respect to mental traits and capacities. It will include a survey of the methods by which psychologists have tried to determine and define such differences; and an intensive study of the test movement, with some training in the giving of tests and in the statistical treatment of results. The reference works will include Freeman, *Mental Tests;* Terman, *The Measurement of Intelligence;* and current psychological periodicals.

Open to students who have completed course 101, and who either have completed course 207, or have completed or are taking course 209 or 309 in Psychology or course 201 in Education. Three hours a week for the first semester.
MISS JOHANNSEN.

309. ABNORMAL PSYCHOLOGY. This course will include the following topics: (1) The abnormal phenomena of the normal mind (such as dreaming); (2) the minor mental aberrations in their relation to mental hygiene; (3) mental deficiency and special disabilities; (4) certain major disturbances of which some knowledge is important to the social worker; (5) delinquency in its mental aspects. Reference books will include Conklin, *Principles of Abnormal Psychology;* McDougall, *An Outline of Abnormal Psychology.*

Open to students who have completed course 101 and have completed, or are taking, at least two semester courses chosen from the following: courses 207, 209, 210, 212 and 310 in Psychology; course 201 in Education; courses 202 and 303 in Sociology; and course 306 in Zoology. Three hours a week for the first semester. MISS GAMBLE.

310. SOCIAL PSYCHOLOGY. This course includes the following topics: (1) The nature of social consciousness and behavior; (2) such social phenomena as "mob-mind," convention and custom; (3) certain present-day problems, such as racial and national antipathies in their psychological aspects; (4) individual cases of social maladjustment in the light of differential psychology and of mental hygiene. Reference books will include Young, *Source Book for Social Psychology;* McDougall, *Social Psychology* and *The Group Mind;* and the Case Studies of the Judge Baker Foundation.

Open to students who have completed course 101 and have completed, or are taking, at least two semester courses chosen from the following: courses 207, 209, 210, 212 and 309 in Psychology; course 201 in Education; and courses 202 and 303 in Sociology and the course in Group Leadership. Three hours a week for the second semester. MISS GAMBLE.

303. ADVANCED COURSE IN EXPERIMENTAL PROBLEMS IN PSYCHOLOGY. Investigation of special problems. Among the subjects studied in 1929-30 are these: The perception of form in indirect vision, learning on the elevated maze, and *Gestalt* in memorizing.

Open to students who have completed course 210. Five or six periods of laboratory a week, including one or two with instructor, counting three hours a week for the first semester.

MR. ZIGLER, MISS GAMBLE, MISS JOHANNSEN.

308. ADVANCED COURSE IN EXPERIMENTAL PROBLEMS IN PSYCHOLOGY. Investigation of special problems.

Open to students who have completed course 210. Five or six periods of laboratory a week, including one or two with instructor, counting three hours a week for the second semester. MR. ZIGLER, MISS GAMBLE.

324. SEMINARY IN PSYCHOLOGY: TYPES OF PSYCHOLOGICAL THEORY. This course attempts a comparison of structural, personalistic and behavioristic psychology, "psychology of the unconscious," and *Gestalt* psychology.

Open to students who are taking the twelve-hour major in Psychology, or to students who are taking a nine-hour major including courses 209 and 210. Open also to approved graduate students. Three hours a week for the second semester. MISS GAMBLE, MR. ZIGLER.

III. Philosophy

102. INTRODUCTION TO PHILOSOPHY. The aim of this course is to stimulate philosophical thinking and to give the student some acquaintance with metaphysical problems and some training in method. The discussions are based on classical texts chosen to illustrate dualism, materialism and idealism. The texts studied include selections from Descartes, La Mettrie, Haeckel, and Berkeley.

Open to sophomores, juniors and seniors. Three hours a week for a semester; offered in both semesters.

Lecture Divisions B, C, and D, MISS MACKINNON;
Division A, MR. PROCTER.
Conferences, MISS MACKINNON, MR. PROCTER,
MRS. TAPLIN, MISS DONOVAN.

205. ETHICS. This course is an attempt to reach a critical understanding of present standards of morality in the light of their origins, their rationality, and their psychological bases. It begins with a brief comparison of present-day standards with the codes of other peoples and ages, followed by study of certain important ethical systems. The latter part of the work is a consideration of contemporary tendencies in ethical theory. Reference books include Plato's *Republic;* Dewey and Tufts, *Ethics;* Hobhouse, *Morals in Evolution.*

Open to sophomores, juniors and seniors who have completed or are taking course 101 or course 102. Three hours a week for the first semester. MISS MACKINNON.

211. ELEMENTARY COURSE IN PHILOSOPHY OF RELIGION. Central problems of the course: The meaning, value, and validity of belief in God as object of thought, of faith, and of intuition. Brief preliminary study, historical and psychological, of actual religious consciousness as preparation for its critical evaluation. Reference texts will include Moore, *The Birth and Growth of Religion;* Pratt, *The Religious Consciousness;* Russell, *A Free Man's Worship;* Hocking, *The Meaning of*

God; Wells, *God the Invisible King;* Robinson, *The God of the Liberal Christian;* Whitehead, *Religion in the Making.*

Open to students who have completed course 102, and by special permission to students who are taking courses 101-102 and have completed a directed course of reading (not for credit). Three hours a week for the first semester. MR. PROCTER.

307. GREEK PHILOSOPHY. Primarily text-study. *(a)* Brief study of the Pre-Socratics. *(b)* The Sophist movement. *(c)* Passages from Xenophon's *Memorabilia;* the Dialogues of Plato, including the *Apology, Crito, Gorgias, Symposium, Phaedo, Parmenides* and extended passages from the *Republic* and the *Timaeus.* (*d*) Selections from Aristotle. *(e)* The Stoics, Epicureans and Neo-Platonists: selections from Epictetus, Marcus Aurelius and Plotinus. Special emphasis on the relation of these authors to modern philosophical problems.

Open to juniors and seniors who have completed course 102 and to approved graduate students. Three hours a week for a year.
MR. PROCTER.

304. PROBLEMS OF MODERN PHILOSOPHY. This course is conducted through discussions, supplemented by occasional lectures, on problems of philosophy, including the issues between realism and idealism, between pluralism and absolutism, and between pragmatism and rationalism. Critical reading of Spinoza's *Ethics;* of Leibniz's *Discourse on Metaphysics and Monadology;* of Hume's *Inquiry Concerning Human Understanding* and parts of the *Treatise;* of portions of Kant's *Critique of Pure Reason* and *Metaphysics of Ethics;* and of selections from Bergson, James, Royce, Pearson, Russell, Dewey, and others.

Open to juniors and seniors who have completed course 102 and to approved graduate students. Three hours a week for a year.
MISS MACKINNON.

305. THE LOGIC OF HEGEL. Text-study of the *Logic* of Hegel's *Encyclopedia,* with occasional reference to commentators and critics, as basis for the discussion of philosophical method and of metaphysical problems.

Open (1) to seniors who have completed courses 307 and 304; (2) to seniors who have completed either of the two courses 304, 307 and are taking the other; (3) to seniors who have completed either course 307 or 304 and a directed course of summer reading (not for credit); also by special arrangement to graduate students. Three hours a week for the second semester. MISS MACKINNON.

312. MODERN ENGLISH AND AMERICAN REALISTIC PHILOSOPHIES. The course begins with a brief review of Locke to illustrate the difficulties of the older realism. The modern reaction against idealism is introduced

through G. E. Moore's *The Refutation of Idealism*. This is followed by a detailed study of dualistic realism as exemplified by Alexander, Laird and the Critical Realists. The second part of the course consists of a study of monistic realism introduced by James's *Does Consciousness Exist?*

Open on the same conditions as course 305. Three hours a week for the first semester. MR. PROCTER.

323. SEMINARY. THE DEVELOPMENT OF MEDIÆVAL PHILOSOPHY. The subject for 1929-30 is the development of mediæval philosophy.

Open to students who are taking the twelve-hour major in Philosophy and to those who are taking the nine-hour major in Philosophy supplemented by either History 311 or Biblical History 302. Open also to approved graduate students. Three hours a week for the first semester. MISS MACKINNON.

322. SEMINARY. CONSTRUCTIVE TREATMENT OF PROBLEMS OF METAPHYSICS. (Not given in 1929-30.)

Open to students who are taking the twelve-hour major in Philosophy and to approved graduate students. Three hours a week for the first semester. MISS MACKINNON.

Graduate Work

The department offers to graduate students direction in independent work both in philosophy and in psychology, and conducts graduate conferences with individual students at stated times.

PHYSICS

PROFESSOR: LOUISE SHERWOOD MCDOWELL, PH.D. (CHAIRMAN.)
ASSOCIATE PROFESSORS: GRACE EVANGELINE DAVIS, M.A.
LUCY WILSON, PH.D.
LECTURER: HOWARD EDWARD PULLING, PH.D.
PROFESSOR OF BOTANY.
INSTRUCTOR: HAZEL MARIE FLETCHER, PH.D.
ASSISTANT: GABRIELLE ASSET, B.A.

101. ELEMENTARY PHYSICS. This course is for beginners and presents briefly the elementary principles of mechanics, sound, heat, electricity, and light, and their applications. The lectures are fully illustrated by experiments.

Open to students who do not present Physics for admission. Three periods of lecture and recitation with one three-period laboratory appointment a week, counting three hours a week for a year.

MISS MCDOWELL, MISS WILSON, MISS FLETCHER, MISS ASSET.

104. ELEMENTARY PHYSICS. This course is for beginners. The same topics are considered as in course 101, but emphasis is placed upon the mathematical development of the subject. The lectures are fully illustrated by experiments.

Open to students who do not present Physics for admission and who have completed or are taking a year course in Mathematics in college. Three periods of lecture and recitation with one three-period laboratory appointment a week, counting three hours a week for a year.

MISS MCDOWELL, MISS WILSON, MISS FLETCHER.

102. GENERAL PHYSICS: MECHANICS, ELECTRICITY, AND LIGHT. This course is intended for students who already have an elementary knowledge of physics; it gives a rapid survey of the fundamental principles in mechanics, magnetism and electricity, wave motion and light. The lectures are fully illustrated by experiments.

Open to students who present one unit in Physics for admission and who are electing course 203 or 205. Three periods of lecture and recitation with one three-period laboratory appointment a week, counting three hours a week for the first semester. MISS FLETCHER.

201. ELECTRICITY. Topics include magnetic and electric fields of force, current, potential difference, resistance, capacity, electromagnetic induction. Lectures and laboratory work are closely correlated and measurements are made with instruments of precision.

Open to students who have completed course 101 or 104 or 102, and by special permission to juniors and seniors who present one unit in Physics for admission. Three periods of lecture and discussion, with one three-period laboratory appointment a week, counting three hours a week for the first semester. MISS DAVIS.

203. METEOROLOGY. The study of the phenomena of the weather with special attention to the application of the principles of heat. Topics include air pressure, temperature, progress of storms, cold waves, winds, clouds, precipitation; the principles of weather prediction; atmospheric optical phenomena.

Open to students who have completed course 102 and to sophomores, juniors and seniors who have completed or are taking course 101 or 104 or who present one unit in Physics for admission. Three periods of lecture and discussion with one three-period laboratory appointment a week, counting three hours a week for the second semester. MISS DAVIS.

205*. SOUND. A preliminary study of vibrations and wave motion, including reflection, refraction, interference, and the principle of resonance. Properties of musical notes: intensity, pitch and quality; scales and tonal

*Offered in co-operation with the Department of Music.

combinations; types of sounding bodies; musical instruments, their characteristics and combinations; architectural acoustics; reception of sound by the ear; reproduction by telephone, phonograph and radio.

Open to students who have completed course 102, and to sophomores, juniors, and seniors who have completed or are taking course 101 or 104 or who present one unit in Physics for admission. Three periods of lecture and discussion with one two-period laboratory appointment a week, counting three hours a week for the second semester.

MR. HAMILTON, MISS MCDOWELL, MISS DAVIS.

204. THE AUTOMOBILE: PRINCIPLES AND CONSTRUCTION. The internal combustion engine; carburetors; systems of ignition, starting and lighting, and transmission. Lectures with demonstrations to illustrate the physical principles involved. Individual laboratory study of various automobile mechanisms.

Open by permission to juniors and seniors who have completed course 101 or 104 or 102 or who present one unit in Physics for admission. One period of lecture or one three-period laboratory appointment a week, counting one hour a week for a year. MISS WILSON.

301†. LIGHT. The wave theory and its application to the phenomena of dispersion, interference, diffraction, with considerable emphasis on the study of spectra; polarization, double refraction, propagation in crystalline media; theory and use of optical instruments; modern methods of illumination.

Open to juniors and seniors who have completed a course of grade II in Physics, or a year course of grade I in Physics and a year course of grade I in Astronomy. Three periods of lecture and discussion with one three-period laboratory appointment a week, counting three hours a week for the first semester. MISS WILSON.

302. ELECTROMAGNETIC WAVES AND RADIO COMMUNICATION. (Not offered in 1929-30.) Alternating currents, the effect of inductance and capacitance; electric oscillations, damping, coupled circuits; electromagnetic waves; three-electrode vacuum tubes and their application to the transmission, reception and amplification of electromagnetic waves. Experimental lectures with individual laboratory study.

Open to juniors and seniors who have completed course 201. Three periods of lecture and discussion, with one three-period laboratory appointment a week, counting three hours a week for the second semester.

MISS MCDOWELL.

303. ELECTRONIC PHYSICS. The course gives a brief introduction to the quantum theory and theories of the structure of the atom and con-

†Astronomy 301, to which Physics 301 is prerequisite, may be counted toward a major in Physics.

siders in some detail the evidence offered by the phenomena of cathode rays, X-rays, positive rays, radio-activity, isotopes, photoelectricity, ionization, and optical spectra. The treatment is non-mathematical.

Open to juniors and seniors who have completed a course of grade I and a course of grade II in Physics and who have completed or are taking a year of Chemistry or who have completed a course of grade I in Physics and course 305 in Chemistry. Three hours a week for the second semester. MISS MCDOWELL.

304. THEORETICAL ELECTRICITY AND MAGNETISM. The work is based upon Starling's *Electricity and Magnetism* and free use is made of the calculus.

Open to juniors and seniors who have completed course 201 and also course 202 or 301 in Mathematics. Three hours a week for the first semester. MISS MCDOWELL.

305. MECHANICS. Equations of motion; simple harmonic motion; central orbits; statics of rigid bodies; work, energy; dynamics of a particle; motion of rigid bodies. Emphasis is placed on the application of mathematics, especially plane analytic geometry and the calculus, to physics; use is made of differential equations.

Open to students who have completed course 101 or 104 or 102 in Physics and course 202 or 301 in Mathematics. When combined with course 303 in Mathematics it may be counted toward a major in Mathematics. Three hours a week for the second semester. MISS FLETCHER.

308. BIO-PHYSICS. The course deals with our present conceptions of those physical processes that are fundamental to organisms. It includes such topics as: properties of solutions (diffusion, osmosis, surface tension, etc.); properties of colloidal systems (swelling, coagulation, alteration of permeability in membranes, etc.); effects of heat, radiant energy. It is designed not only to acquaint the student with the important generalizations of the subject, but also to enable her to visualize the processes themselves.

Open to juniors and seniors who have completed in college one year of Physics and one year of either Botany or Zoölogy. Three periods of lecture and discussion, with one three-period laboratory appointment a week, counting three hours a week for the first semester.

MR. PULLING, MISS DAVIS.

307. LABORATORY PRACTICE. Laboratory practice arranged to fit the needs of the individual student. Opportunity will be given for a series of experiments upon related topics and for training in laboratory technique such as scientific photography.

Open to juniors and seniors who have completed or are taking a course of grade III in the department, and by special permission to advanced

students in other science departments. One three-period laboratory appointment a week, counting one hour a week for a year.

MISS MCDOWELL, MISS DAVIS, MISS WILSON.

306. ADVANCED COURSE IN EXPERIMENTAL PROBLEMS IN PHYSICS. (Not given in 1929-30.) The subjects in which experiments are offered are: conduction of electricity through gases, radio-activity, X-rays, X-ray and optical spectroscopy.

Open to students who have completed or are taking course 303, or have completed course 301. Five to six periods of laboratory a week, counting three hours a week for the second semester, or three to five periods a week, counting two hours a week for the second semester. The amount of work contemplated must be indicated at the time of handing in electives.

MISS WILSON.

READING AND SPEAKING

ASSISTANT PROFESSORS: EDITH MARGARET SMAILL, A.A.
EDITH WINIFRED MOSES, M.A. (CHAIRMAN.)
INSTRUCTORS: RUTH AIKMAN DAMON, M.A.
OLIVIA MARIA HOBGOOD, M.A.

Six hours in this department in addition to course 104 may be counted within the minimum number of hours required for the B.A. degree.

101. READING AND SPEAKING. It is the purpose of this course to develop the ability to read aloud simply and easily and to speak with clearness and conviction. Study of various forms of literature; exercises to free the body and voice; phonetics and enunciation.

Open to all undergraduates. Three hours a week for a year.

MISS SMAILL, MISS MOSES, MRS. DAMON, MISS HOBGOOD.

103. PUBLIC SPEAKING. (Not offered in 1929-30.) This course is designed to develop the ability to speak in public effectively. There will be the presentation and criticism of original speeches, and of speeches selected from famous addresses.

Open to sophomores, juniors, and seniors. Three hours a week for a year.

MRS. DAMON.

104. FUNDAMENTALS OF SPEECH. This course is intended to promote right habits in the production of voice for ordinary speaking and to increase precision in articulation, enunciation and pronunciation.

Required of sophomores except those who have been exempted by examination or have completed or are taking course 101 or 103. One hour a week for a year.

MISS SMAILL, MISS MOSES, MRS. DAMON, MISS HOBGOOD.

201. MODERN DRAMA AND MODERN POETRY. The study and presentation of various forms of standard literature. This course is designed primarily to develop the imaginative and creative power of the individual and to arouse an appreciation of the educational value of interpretative expression. Tennyson, Browning, Modern Poetry, and Drama.

Open to students who have completed one three-hour course in the department, also to those who have completed or are taking English Literature 302 or 307. Three hours a week for a year. MISS SMAILL.

301. INTERPRETATION OF SHAKESPEARE. Intensive study of the text for expression; the giving under student management of all the great scenes in a play. Three plays studied.

Open to students who have completed one three-hour course in the department, also to those who have completed or are taking English Literature 205 or 309. Three hours a week for a year. MISS SMAILL.

SPANISH

PROFESSOR: ALICE HUNTINGTON BUSHEE, M.A. (CHAIRMAN.)
ASSISTANT PROFESSORS: ADA MAY COE, M.A.
LORNA ISABELLA LAVERY, M.A.
INSTRUCTOR: ESTHER AMALIA FANO, B.A.

A reading knowledge of French is required for all grade III work and desirable in all courses. The language of the class room is Spanish.

101‡. ELEMENTARY COURSE. Grammar, composition, dictation, conversation, prepared and sight translation, short lectures in Spanish.

Open to students who do not present Spanish for admission. Three hours a week for a year. MISS COE, MISS LAVERY, MISS FANO.

102. INTERMEDIATE COURSE. Grammar, composition, themes, lectures, reading of typical modern novels and selections from *Don Quijote*.

Open to students who have completed course 101 or an equivalent. Three hours a week for a year. MISS BUSHEE, MISS FANO.

103. OUTLINE HISTORY OF SPANISH LITERATURE. A survey course with illustrative reading, planned especially for those who intend to major in Spanish. Grammar and composition will be required throughout the year.

Open to students who present three units in Spanish for admission, and on recommendation of the department to students who have completed course 101. Three hours a week for a year. MISS LAVERY.

201. SPANISH LITERATURE IN THE EIGHTEENTH AND NINETEENTH CENTURIES. The aim of this course is to give the student a general idea

‡Spanish 101 may not be counted toward the B.A. degree if taken after the junior year.

of Spanish literature after the Golden Age: the French influence, Romanticism, and the noted authors of the latter part of the nineteenth century. This includes the rapid reading of both prose and poetry.

Open to students who have completed course 102 or 103. Three hours a week for a year. MISS BUSHEE.

203. ADVANCED CONVERSATION AND COMPOSITION. This course is designed to give special opportunity for conversation, composition and the acquisition of a large working vocabulary. The work is based on Spanish life, institutions and history.

Open to students who have completed course 103 and to approved students who have completed course 102. One hour a week for a year. MISS FANO.

204. CONTEMPORARY SPANISH LITERATURE. A survey of the literary movement since 1898 with special emphasis on the novel and drama.

Open to students who have completed course 102 or 103. Three hours a week for a year. MISS FANO.

301. DRAMA OF THE GOLDEN AGE. This course will be introduced by a short general outline of the historical and literary influences at work during the period. Characteristic dramas of Lope de Vega, Alarcón, Tirso de Molina, and Calderón will be studied as representative of the nation's thought and ideals at the time.

Open to juniors and seniors who have completed course 201, or 204, and to approved sophomores who have completed course 201 or 204. Three hours a week for a year. MISS COE.

302. THE SPANISH NOVEL. The first semester will be devoted to a general study of the novel before 1650, especially the *caballeresca*, *picaresca*, and *pastoral*. During the second semester *Don Quijote* will be studied.

Open to juniors and seniors who have completed course 201 or 204. Three hours a week for a year. MISS LAVERY.

303. OLD SPANISH LITERATURE FROM 1150 to 1400. Study of *El Poema del Cid* and other characteristic works of the period.

Open to graduates and to approved seniors who have had at least one course of grade III. Three hours a week for a year. MISS BUSHEE.

304. SPANISH LYRIC POETRY. (Not given in 1929-30). Special study of the *romances* and their relation to the drama and of the poetry of the Mystics and of other writers of the Golden Age.

Open to graduates and approved seniors who have had at least one course of grade III. Three hours a week for a year. MISS COE.

305. CERVANTES. (Not given in 1929-30.) A careful comparative study of the prose works of Cervantes.

Open to graduates and approved seniors who have completed course 302. Three hours a week for a year. MISS BUSHEE.

306. MODERN SPANISH AMERICAN LITERATURE. (Not given in 1929-30.) The aim of this course is to show the influences at work in the making of Spanish American Literature with the reaction, especially in poetry, on the literature of Spain.

Open to juniors and seniors who have completed course 201 and History 214 or an equivalent. Three hours a week for a year. MISS COE.

ZOOLOGY AND PHYSIOLOGY

PROFESSORS: MARIAN ELIZABETH HUBBARD[2], B.S.
JULIA ELEANOR MOODY, PH.D. (CHAIRMAN.)
ASSISTANT PROFESSORS: MARGARET ALGER HAYDEN, PH.D.
VERZ ROGERS GODDARD, PH.D.
VISITING ASSISTANT PROFESSOR: HELEN WARTON KAAN, PH.D.
INSTRUCTORS: HELEN BROWN AVERY, M.A.
HARRIET CUTLER WATERMAN, PH.D.
GLADYS KATHRYN MCCOSH, PH.D.
LALIAH FLORENCE CURRY, PH.D.
MARY LELLAH AUSTIN, PH.D.
MARGARET ELLIOTT VAN WINKLE, M.S.
CURATOR: ALBERT PITTS MORSE.
LABORATORY ASSISTANTS: SIBYL AMANDA HAUSMAN, B.A.
ALFHILD JULIA JOHNSON, B.A.
DOROTHY FRANCES JOHNSON, B.A.
ROSEMARY ANNE MURPHY, B.S.
CUSTODIAN: KATHLEEN MILLICENT LEAVITT.

101. THE BIOLOGY OF ANIMALS. This course aims to furnish a basis for the interpretation of life as it appears in the animal world, including man. The study of a series of forms of increasing complexity develops a conception of what an animal is, and of how animals have arisen through evolution in the past. The study of cells, particularly the germ cells, leads to an understanding of the mechanism of heredity. Through the second semester runs a series of lectures and discussions on the evidences and factors of evolution, on heredity and eugenics.

Open to all undergraduates. Six periods a week, in general two of lecture, discussion or quiz, and four of laboratory, counting three hours a week for a year. MISS HAYDEN, MISS AVERY, MISS WATERMAN. MISS MCCOSH, MISS AUSTIN, MRS. VAN WINKLE.

Zoology

201. INVERTEBRATE ZOOLOGY. (Not offered in 1929-30.) A study of invertebrate types, except the Arthropoda, with reference to their struc-

[2]Absent on Sabbatical leave.

ture, life-history, habits, and distribution; emphasis is given to the general principles of evolution. Lectures, laboratory, field and museum trips.

Open to students who have completed course 101. Six periods a week, in general two of lecture, discussion or quiz, and four of laboratory, counting three hours a week for the first semester.

202. INVERTEBRATE ZOOLOGY. (Not offered in 1929-30.) A study of the Arthropoda with special reference to the group of insects; their structure, life-history and habits. Attention will be given to insects of economic importance, such as the silk-worm, the disease carriers, household insects and those injurious to vegetables, fruit and trees. Lectures, laboratory, field and museum trips.

Open to students who have completed course 201, and by permission of the department to students who have completed course 101. Six periods a week, in general two of lecture, discussion or quiz, and four of laboratory, counting three hours a week for the second semester.

203. VERTEBRATE ZOOLOGY. Evidences of evolution from the study of comparative anatomy and the development of the vertebrates, based upon a careful dissection of dogfish, necturus, reptile, and cat. The aim throughout is to trace the evolution of the vertebrate type with particular reference to the history of the human body. Lectures, laboratory and museum work.

Open to juniors and seniors without prerequisites, and to other students who have completed course 101. Five-year Hygiene students electing this course must also take course 301. Six periods a week, in general two of lecture, discussion or quiz, and four of laboratory, counting three hours a week for a year.

MISS MOODY, MISS AVERY, MISS WATERMAN.

301. MAMMALIAN ANATOMY. (HYGIENE 301.) Lectures and laboratory work on the gross anatomy of bones and muscles.

Required of first-year graduate students in the Department of Hygiene and Physical Education; also of juniors who are registered as five-year Hygiene students. If counted as part of a major in Zoology, course 301 should be preceded by course 101. Three periods a week, in general one of lecture, discussion or quiz, and two of laboratory, counting two hours a week for the first semester. MISS WATERMAN.

313. MAMMALIAN ANATOMY (HYGIENE 313). Lectures and laboratory work on the digestive, respiratory, excretory, reproductive, circulatory and nervous systems.

Required of first-year graduate students in the department of Hygiene and Physical Education; also of juniors who are registered as five-year Hygiene students, with the exception of those students who have already

completed course 203. If counted as part of a major in Zoology, course 313 should be preceded by courses 101 and 301. Three periods a week, in general one of lecture, discussion or quiz, and two of laboratory, counting two hours a week for the second semester. MISS WATERMAN.

303. HISTOLOGY AND HISTOLOGICAL TECHNIQUE. This course aims to give the student a clear understanding of the structural appearance of the fundamental tissues and of some of the organs of the animal body. The emphasis is placed on a study of the mammalian tissues. The mode of origin of the principal tissues and their chief physiological aspects are briefly considered. The theory and practice of laboratory methods in fixing, hardening, embedding, sectioning, staining, and mounting of microscopical preparations are also included.

Open to juniors and seniors who have completed or are taking course 203 or 308. Six periods a week, in general two of lecture, discussion or quiz, and four of laboratory, counting three hours a week for the first semester. MISS KAAN.

304. EMBRYOLOGY. The course concerns itself with an analysis of the development and structure of the germ cells, the fertilization and cleavage of the egg, and the formation of the principal structures of the vertebrate body. Invertebrate material is utilized for laboratory work on the early stages, and the chick and pig are studied for later development. The student acquires a practical knowledge of general embryological technique.

Open to juniors and seniors who have completed or are taking course 203 or 308. Six periods a week, in general two of lecture, discussion or quiz, and four of laboratory, counting three hours a week for the second semester. MISS KAAN.

305. THEORIES AND PROBLEMS OF ZOOLOGY. A critical study of the past and present theories and problems of Zoology, and the history of their development; including the questions of the origin of life, development, evolution, and heredity.

Open to students completing a twelve-hour major, and under special conditions to others with the approval of the department. Three hours a week for the second semester. MISS MOODY.

306. HEREDITY. Problems in variation and heredity, with a critical study of the cytological and genetical evidence found in animals, and the application of these principles to human inheritance. Practical breeding tests with Drosophila and guinea-pigs. Discussion of recent papers bearing on these problems.

Open to students completing a twelve-hour major; to five-year Hygiene students completing a major in Zoology, and to others under certain

conditions with the approval of the department. Three hours a week for the first semester. MISS MOODY.

307. RESEARCH. Elementary problems in Histology, Embryology, Invertebrate or Vertebrate Zoology, Physiology. Independent work will be required of the student under the direction of the instructor in the field chosen.

Open with the advice of the department to students who have completed or are completing a nine-hour major in Zoology. Three to six periods a week, counting one and one-half to three hours for a year, or six periods a week, counting three hours a week for a semester. For graduate students, three to twelve periods a week, counting one and one-half to six hours for a year, or six to twelve periods, counting three to six hours for a semester.

310. THE HISTOLOGY OF THE ORGANS. A systematic study of the microscopic structure of organs, with particular reference to function. It will include a study of glands of internal secretion, the organs of the digestive, excretory, respiratory, reproductive and nervous systems, and organs of special sense. There will be practical work in special methods of histological technique.

Open to juniors and seniors who have completed course 303. Six periods a week, in general two of lecture, discussion or quiz, and four of laboratory, counting three hours a week for the second semester.
MISS KAAN.

321. SEMINAR. (Not offered in 1929-30.) Reports and discussion of current investigations in Zoology and Physiology, under the guidance of the staff, and as a part of the departmental Journal Club.

Open to graduate students and to approved seniors. One hour a week for a year. THE TEACHING STAFF.

Physiology

302. GENERAL PHYSIOLOGY (Hygiene 302). The course aims to give a fundamental knowledge of general physiological processes. It includes elementary physical and chemical phenomena of living organisms, and a study of the coördinated systems in mammalian forms. Lectures, demonstrations and laboratory work cover simple chemical studies of the constituents of living matter, and observations of more complex physiological processes—nutrition, circulation, respiration, excretion, nerve-muscle response, reproduction, endocrine activities.

Required of first-year graduate students in the Department of Hygiene and Physical Education; also required of students registered for the five-year Hygiene course, either in the junior or senior year. If counted as

part of a major in Zoology, course 302 should be preceded by course 101. Open to Hygiene students only; others take course 308. Six periods a week, in general two of lecture, discussion or quiz, and four of laboratory, counting three hours a week for a year. MISS GODDARD, MISS CURRY.

307. RESEARCH. (See Zoology.)

308. GENERAL PHYSIOLOGY. The course aims to give a fundamental knowledge of general physiological processes. It includes elementary physical and chemical phenomena of living organisms, and a study of the coördinated systems in mammalian forms. Lectures, demonstrations and laboratory work cover simple chemical studies of the constituents of living matter, and observations of more complex physiological processes—nutrition, circulation, respiration, excretion, nerve-muscle response, reproduction, endocrine activities.

Open to students who offer as prerequisites Zoology 101 and Chemistry 101 or 102; or to students who in addition to fulfilling the Chemistry requirement have completed or are taking Zoology 203. Chemistry 301 is recommended as a parallel course. Six periods a week, in general two of lecture, discussion or quiz, and four of laboratory, counting three hours a week for a year. MISS CURRY.

309. METABOLISM. (Not offered in 1929-30.) A study of relationships involved in waste and repair in the animal body and in energy changes. The course will present nitrogen, mineral and vitamin metabolism, and by feeding experiments with animals will illustrate characteristic deficiency conditions. The work on gaseous exchange will include a clinical method of determining basal metabolism; also a consideration of the influence of internal secretions on the oxygen consumption, and the variations of the latter concomitant with disease.

Open to students who have completed course 308 or 302 and Chemistry 301. Six periods a week, in general two of lecture, discussion or quiz, and four of laboratory, counting three hours a week for a year.

311. PHYSIOLOGY OF THE NERVOUS SYSTEM. A study of the control of the animal organism through the central nervous system and the organs of special sense. The course includes a consideration of the theories of conductivity, and of the physiological basis of mental processes and behavior.

Open to students who have completed course 308 or 302. Six periods a week, in general two of lecture, discussion or quiz, and four of laboratory, counting three hours a week for the first semester.

MISS GODDARD, MISS CURRY.

312. PHYSIOLOGY OF NUTRITION. The course includes the study of assimilation by tissue cells as well as the process involved in normal

digestion and absorption of foodstuffs. Normal and faulty nutrition will be compared by feeding experiments with animals. The laboratory work will include macroscopic and microscopic studies on digestive organs and glands, and a study of their motivation by nervous and chemical (hormonal) means.

Open to students who have completed course 308 or 302. Chemistry 301 is not required as a prerequisite but is recommended. Six periods a week, in general two of lecture, discussion or quiz, and four of laboratory, counting three hours a week for the second semester.

MISS GODDARD, MISS CURRY.

321. SEMINAR. (See Zoology.)

COLLEGE EXAMINATIONS

An examination period occurs at the end of each semester. At these periods, and also during the days of the admission examinations in September, examinations for the removal of conditions and deficiencies and for advanced standing may be taken.

A student who wishes to take an examination upon a course which is not a part of her approved schedule for the year, must apply to the College Recorder for the requisite card of admission to the examination. The last day for receiving applications for such cards is *for the September examinations, September first; for the mid-year examinations, January first; for the June examinations, May first.*

N. B. Examinations for the removal of conditions and deficiencies excepted, no student can be admitted to examination upon a course which is not a part of her approved schedule for the year without permission both from the Chairman of the Department concerned and the Dean. *No student, therefore, should enter upon preparation for such an examination until her plan has been approved by both of the above named officers.*

☞The College reserves the right to require the withdrawal of students whose scholarship is not satisfactory, and of those who for any other reason are regarded as not in accord with the ideals and standards which the College seeks to maintain.

EXPENSES

Tuition

The charge for tuition to all students, whether living in college buildings or not, is $400 a year. Tuition is payable in advance and *is not subject to return or deduction.*

Students who are permitted to take *seven hours or less* of class room work a week, and *who do not live in college buildings,* pay tuition by the course as follows: for a one-hour course, $50; a two-hour course, $100; a three-hour course, $150. Payment is due at the beginning of the year.

Residence

The charge for residence is $600.

☞*A student vacating a room before the close of the year, or relinquishing a room* reserved for her at the beginning of the year, will be

charged for board, until the vacancy has been filled by an incoming student, at the rate of not less than $18 a week. Any number of days less than one week will be charged as one full week, the minimum charge being for one full week. Therefore, notice of intention to withdraw should be given at the earliest possible moment. No deduction is made for absences during the year.

Fixed Times and Amounts of Payment

I. For students who room in college buildings.

Application fee *payable in advance*		$10
September (at the opening of college)		
On account of tuition	$240	
On account of board and room	300	540
February (before the beginning of the second semester)		
Balance on tuition	$150	
Balance on board and room	300	450
Total for the year		$1,000

The regular charge for board begins at the opening of dormitories.

II. For students who do not room in college buildings.

Application fee *payable in advance*	$10	
September (at the opening of college)	240	
February (before the beginning of the second semester)	150	
Total for the year		$400

Such students make payment for room and board directly to the management of the private houses in which they have secured lodging and meals, at such rates and times as the parties to the arrangement may agree upon. Information regarding boarding places may be obtained by addressing the Dean of Residence.

☞ *Payments must be made before the student can take her place in the class room. No exception will be made to this rule without a written permission from the Treasurer.*

☞ *Checks or money orders should be made payable to Wellesley College. If sent by mail, they should be addressed to the Treasurer.*

Tuition and Other Charges in Department of Music

For instruction for the college year in Pianoforte, Organ, Violin or Voice, two lessons a week . . .	$150
One lesson a week	75
(Lessons thirty minutes in length)	
For use of the Pianoforte, one period daily for the college year	15
For two or three periods daily, in proportion.	
For use of the Pipe Organ in Music Hall, one period daily, for the college year	20
For two or three periods daily, in proportion.	

Special arrangements may be made for lessons on instruments not mentioned above.

Tuition in music is payable in advance in two equal installments, one at the beginning of each semester, and *is not subject to return or deduction.*

Fees

I. Undergraduate.

a. Application Fee.

An application fee of $10 is required from all candidates for admission, and no application is recorded until the fee is received. The same fee is required from all students in college who are intending to return for the following year, and from all former students who apply for readmission. If the student enters college, the amount of the application fee is deducted from the first tuition bill after entrance. If the application is cancelled *for any reason* the fee is forfeited to the college. A student who postpones entrance until the year following the one for which she first applied may transfer her application fee.

b. Diploma Fee.

At the time of taking the B.A. degree or the certificate in Hygiene and Physical Education, a diploma fee of $10 is charged.

Every student should also reckon on an expenditure of $15 to $30 annually for the purchase of books.

II. Graduate.

A matriculation fee of $5 is payable when an applicant is accepted as a graduate student. The amount of this fee will be deducted from the diploma fee of $25 payable when the Master's degree is received.

☞*No student may receive a diploma until a satisfactory settlement of all her college dues has been made.*

HALLS OF RESIDENCE

The residence halls belonging to the College and situated within the limits of the campus are Norumbega, Freeman, Fiske, Pomeroy, Cazenove, Beebe, Shafer, Tower Court, Claflin, Crawford, Dower House, The Homestead, Severance, Stone and Olive Davis. Situated outside and immediately adjoining the college grounds are Eliot, Washington, Noanett, Crofton and Little Houses also the property of the College, and five houses leased to the College for dormitory purposes in order to meet temporary needs. All these houses are under the direction of officers appointed by the College. All the rooms are furnished, and supplied with electric lights.

Applications for rooms in college buildings take the date at which the application fee is received. (See pages 20 and 140.)

Until May first, but not after that date, *applications from former students* will take precedence of those of new students in the matter of rooms Such applications should be sent to the College Recorder.

HEALTH

The college physicians, together with the Director of the Department of Hygiene and Physical Education, and (*ex officio*) the President, the Dean of the College, the Dean of Residence, and the Dean of Freshman, constitute a board of health to which all matters affecting the health of students are referred. Simpson Cottage is maintained as an infirmary under the charge of the Resident Physician. A neighboring cottage has been fitted up as an annex. Three trained nurses are in constant attendance. The privileges of the infirmary, when prescribed by the Resident Physician, are open to all students without charge for a period not exceeding seven days, provided no extra service is required. There will be a charge at the rate of $2.25 a day for periods exceeding seven days. Charges for extra service will be determined by the amount required. The services of the college physicians for consultation and treatment are free to all students.

FELLOWSHIPS AND SCHOLARSHIPS

A. For Graduates

The Alice Freeman Palmer Fellowship, yielding an income of about $1,600, was founded in 1903, by Mrs. David P. Kimball.

The holder of this Fellowship must be a graduate of Wellesley College or some other American college of approved standing, a young woman of good health, not more than twenty-six years of age at the time of her appointment, unmarried throughout the whole of her tenure, and as free

as possible from other responsibilities. The same person will not be eligible to the Fellowship for more than two years.

The Fellowship may be used for study abroad, for study at any American college or university, or privately for independent research. Several times during the period of tenure the holder of the Fellowship must furnish evidence that it is used for purposes of serious study and not for general culture; and within three years from entrance on the Fellowship she must present to the faculty a thesis embodying the results of the research carried on during the period of tenure.

Applications for this Fellowship should be received by the President of Wellesley College not later than February first of the academic year preceding that for which the Fellowship is asked. Forms to be used in making application may be obtained from the Office of the President, Wellesley College. These applications must be accompanied by theses or papers presenting evidence of the most advanced work of the candidates, since the Fellowship is not assigned on the basis of unsupported credentials, however commendatory.

THE HORTON-HALLOWELL FELLOWSHIP is offered by the Alumnæ Association of Wellesley College. This fellowship is in honor of Mary E. Horton, the first professor of Greek, and Susan M. Hallowell, the first professor of Botany. It is available to those holding a bachelor's or master's degree from Wellesley College, for graduate study in candidacy for the Ph.D. degree, or for independent research of equivalent standard. The amount of the fellowship for 1930-31 will be $1,250.

Applications should be received by the Chairman of the Fellowship Committee, Alumnæ Office, Wellesley College, not later than February fifteenth of the academic year preceding that for which the fellowship is asked.

In making application the candidate should send to the chairman of the committee a personal letter in which she describes fully the plan of study which she would pursue as holder of the fellowship, and her preparation for such work. The letter should be accompanied by such specimens of the written work of the candidate as may best demonstrate her ability to carry on independent study in her chosen field. Before making formal application for the fellowship the candidate should write to the chairman of the committee for more detailed information.

RESEARCH FELLOWSHIP FOR THE STUDY OF ORTHOPEDICS IN RELATION TO HYGIENE AND PHYSICAL EDUCATION, yielding $1000.

The general requirements to be met by applicants are as follows:—good health; the bachelor's degree from a college or university of good standing; sound preparation in chemistry, physics, and biology; special preparation in anatomy, kinesiology and physiology; familiarity with the elements

of orthopedic theory and practice; and an insight into some one or more of the problems of orthopedics as related to hygiene and physical education.

The work on the problem chosen in consultation with the department must be done in residence at Wellesley College. It will, in general, begin in the September following the acceptance of the applicant and will continue through one calendar year. It will involve kinesiology, applied physiology, and the study of clinical material. For the latter, opportunity will be provided to study the work of orthopedic surgeons in Boston and other eastern cities. The results of the investigation are to be embodied in a thesis to be submitted to the department and published.

Applications for this fellowship should be received by the Director, Department of Hygiene and Physical Education, Wellesley College, not later than March first of the academic year preceding that for which the fellowship is asked. The decision reached by the department will be based upon the applicant's record, upon personal correspondence, and, when possible, upon personal interviews.

FANNY BULLOCK WORKMAN SCHOLARSHIP, yielding an income of about $950, was founded in 1929 by the bequest of Mrs. Fanny Bullock Workman.

The holder of this scholarship shall be preferably a woman holding a degree from Wellesley College. She shall present evidence of (a) good health, (b) character, (c) financial need, and (d) ability; and shall be free from personal obligation which would interfere with study. The scholarship may be used to assist preparation for "any useful work." Twice during the period of tenure the holder of the scholarship shall furnish evidence of work done; and not later than one year after the completion of the period, a full report or other suitable evidence of the use to which the scholarship has been applied shall be presented.

Application for this scholarship should be received by the President of Wellesley College not later than February first of the academic year preceding that for which the scholarship is asked. Forms to be used in making application may be obtained from the office of the President, Wellesley College. These applications must be accompanied by evidence of the most advanced work of the candidate in her chosen field.

THE LORETTA FISH CARNEY MEMORIAL SCHOLARSHIP of $1,200 was founded in 1920 by the alumnæ and staff of the Boston Normal School of Gymnastics and the Department of Hygiene and Physical Education of Wellesley College, the income of this fund to be awarded to a senior in the department at the discretion of the teaching staff of the department and the President of the College.

THE AMY MORRIS HOMANS SCHOLARSHIP FUND of $6,700 was founded in 1924 by the Mary Hemenway Alumnæ Association of the Graduate Depart-

ment of Hygiene and Physical Education in honor of Miss Amy Morris Homans, pioneer and leader in physical education in the United States, the income of this fund to be awarded to a student in the Graduate Department of Hygiene and Physical Education who is in need of assistance and shows proficiency and promise.

THE TRUSTEE GRADUATE SCHOLARSHIPS. Two scholarships yielding an income of $750 each were established by the Trustees of Wellesley College in 1927 for members of the senior class who are qualified for graduate work. The scholarships may be used for study in this country or abroad. Notice of the conditions of application are sent in the spring each year to qualified seniors by the chairman of the Committee on Graduate Instruction.

EIGHTEEN GRADUATE SCHOLARSHIPS to the annual value of one year's tuition, have been established for the benefit of approved candidates for the Master's degree in residence at Wellesley. Application for one of these scholarships should be made by personal letter from the candidate to the Chairman of the Committee on Graduate Instruction, Wellesley College, stating the applicant's reasons for desiring to do graduate work in the department chosen, and her reason for applying for the scholarship. The award will be made after the candidate's formal application for admission to graduate work has been accepted.

Laboratory assistants and others members of the official staff of the College are granted the privileges of graduate study without tuition charge.

GRADUATE STUDY IN CLASSICS:—

The American School of Classical Studies in Athens offers special opportunity for graduate study in Greek. Membership without tuition*, is open to all graduates and graduate students of Wellesley College who have done sufficient work in Greek and Archaeology to profit by the opportunity. The object of the School is to furnish an opportunity to study in Greece the literature, art, antiquities and history of the country under suitable guidance; to prosecute and to aid original research in these subjects; and to assist in the exploration and excavation of classic sites. Three fellowships of $1000 each are awarded annually on the basis of competitive examinations and are open to graduates of the co-operating colleges of which Wellesley College is one. For further information apply to Professor Walton.

The American School of Classical Studies in Rome is an integral part of The American Academy. The object of this School is to promote the study of classical literature in its bearing upon antiquities and history; of classical, Etruscan and Italian art and archaeology, including topography,

*The income of the Julia Josephine Irvine Fund makes possible the studentships in the American School of Classical Studies in Athens.

palaeography and epigraphy, and of the art and archaeology of the early Christian, Mediaeval and Renaissance periods within the boundaries of Italy. It furnishes regular instruction and guidance in some or all of these subjects, encourages and assists in original research and exploration. Students should have the ability to read ordinary Greek and Latin prose at sight and to use French and German as instruments of research; they will find an elementary knowledge of Italian very useful. Those admitted are expected to put themselves under the guidance of the Director of the Academy and the Professor in charge of the Classical School for the full period of eight months. Duly qualified graduates of Wellesley College are exempt from any charge for tuition. Three Fellowships in the School of Classical Studies are offered by the Academy, each with a stipend of $1500 a year for two years, and an allowance of $500 for transportation to and from Rome. The academic year begins on the first day of October and students are expected to report in Rome at the Academy on that day. A Summer School established in 1923 offers a programme of great value for students and teachers of the classics. For further information application may be made to Professor Walton.

SCHOLARSHIPS IN THE MARINE BIOLOGICAL LABORATORY AT WOODS HOLE. —Admission to courses at Woods Hole is upon a selective basis. Wellesley College offers annually two scholarships to applicants who are successful candidates. This laboratory is primarily for research, but in the summer courses of instruction are offered, four in Zoology and one in Botany. The purpose of these courses is to aid in the production and training of investigators, and first consideration is given to persons who, whether graduate or undergraduate, give promise of contributing to the advancement of science. Applicants must have completed at least two full college courses in the subject in which they wish to work. The laboratory offers, besides these courses of instruction, opportunity for research, either under direction or independent. In addition, there are courses of lectures on special topics and on subjects of general biological interest.

Applicants should state the character of the work to be done, whether botanical or zoological, whether courses of instruction are desired, or investigation under direction. All applications should be sent to Professor Ferguson or Professor Moody in time to reach Wellesley College before April first. These applications will be forwarded to Woods Hole to be acted upon May fifteenth, after which date notification will be sent to the successful candidates.

B. For Undergraduates

The scholarships listed are awarded in recognition of genuine pecuniary need and of satisfactory character, college citizenship, health, and intellec-

tual and practical ability as tested by a year or more of life and study at Wellesley College. The foundations are of varying amounts, and the income is apportioned as justly as possible according to need and merit. No scholarship award covers the full amount required for both tuition and residence on the ordinary plan. These scholarships are intended primarily for students who have completed one or more years' work at Wellesley College. Provision for new students and additional provision for other students have been made as indicated below.

Beginning with the academic year 1926-27 the Trustees set aside annually a sum for the aid of students of recognized intellectual ability who are financially unable to meet the charges for tuition and residence. The scholarships vary from $100 to $300 with occasional exceptions, are competitive, and are awarded on the basis of merit with due consideration to need, scholarship attainment, and personal qualities. *Applications from new students* for these scholarship should be made to the Dean of Freshmen before March first of the year of admission.

Applications from students in college must be filed with the Chairman of the Faculty Committee on Scholarships before the spring recess on forms furnished for the purpose and in accordance with instructions posted in February of each year.

Two co-operative houses are open to self-helping students but are not of sufficient capacity to provide for freshmen applicants. A system of student waitresses is also in operation, and freshmen can often avail themselves of the opportunity of self-help thus afforded.

The Personnel Bureau is actively engaged in bringing students into connection with work to be done for compensation within the College and in the neighborhood, but such employment, since it makes a distinct draft upon strength and time, is hardly to be advised for the freshman year.

Another source of pecuniary aid is in the work of the Students' Aid Society established by the founders of Wellesley College and revived and incorporated by the alumnæ of the College in April, 1916. Distributions are made both in gifts and in loans without interest. The existing funds are not sufficient for the work in behalf of students which the Society aims to do, and contributions of any amount will be gladly received by the treasurer of the Society, Miss Ruby Willis, care of Wellesley College.

I. SCHOLARSHIPS

ADAMS SCHOLARSHIP FUND of $2,200, founded in 1907 by bequest of Adoniram J. Adams of Boston.

EDITH BAKER SCHOLARSHIP of $7,800, founded in 1892 by bequest of Mrs. Eleanor J. W. Baker, in memory of her daughter.

WALTER BAKER MEMORIAL SCHOLARSHIP of $7,800, founded in 1880 by Mrs. Eleanor J. W. Baker and increased by her bequest in 1892, in memory of her son.

DR. ALMA EMERSON BEALE SCHOLARSHIP FUND of $3,300, founded in 1917 by bequest of Dr. Alma E. Beale of the class of 1891.

CHARLES BILL SCHOLARSHIP FUND of $7,800, founded in 1898 by bequest of Charles Bill.

CHARLES B. BOTSFORD SCHOLARSHIP FUND of $5,600, founded in 1920 by bequest of Lucy A. Botsford.

MARIAN KINNEY BROOKINGS SCHOLARSHIP FUND of $3,000, founded in 1929 by Mrs. Selina M. Kinney, in memory of her daughter, of the class of 1904.

FLORENCE N. BROWN MEMORIAL SCHOLARSHIP of $5,600, founded in 1880 by Mr. and Mrs. Samuel N. Brown, Jr., in memory of their daughter.

MARY CASWELL MEMORIAL SCHOLARSHIP of $5,000, founded in 1928 by Miss Caswell's faculty and alumnae friends.

AUGUSTUS R. CLARK MEMORIAL SCHOLARSHIP of $5,600, founded in 1880 by Mr. and Mrs. A. N. Clark.

CLASS OF 1884 SCHOLARSHIP FUND of $4,635, founded in 1919 by the class, and increased in 1928 by bequest of Clara Brewster Potwin of the class of 1884.

CLASS OF 1889 MEMORIAL SCHOLARSHIP of $1,100, founded in 1904 by the class, in memory of classmates who had died.

CLASS OF 1893 MEMORIAL SCHOLARSHIP FUND of $5,600, founded in 1913 by the class, in memory of Laura Jones Miller and Carrie A. Mann.

ABBIE A. COBURN MEMORIAL SCHOLARSHIP of $2,200, founded in 1892 by Mrs. Coburn.

CONNECTICUT SCHOLARSHIP of $5,600, founded in 1912 by bequest of Mrs. Louise Frisbie.

MARGARET MCCLUNG COWAN FUND of $1,100, founded in 1888 by Rev. and Mrs. P. D. Cowan, in memory of their daughter.

ELIZABETH AND SUSAN CUSHMAN FUND of $23,610, founded in 1923 by bequest of Susan L. Cushman of the class of 1891.

NORMA LIEBERMAN DECKER SCHOLARSHIP FUND of $5,000, founded in 1924 by Mrs. Emma Lieberman in memory of her daughter, Mrs. Decker, of the class of 1911.

DURANT MEMORIAL SCHOLARSHIP of $5,600, founded in 1883 by the officers and students of Wellesley College, in honor of Henry F. Durant.

PAULINE A. DURANT SCHOLARSHIP of $8,250, founded in 1880 by Mr. and Mrs. Henry F. Durant, and increased in 1919 by bequest of Mrs. Durant.

EMMELAR SCHOLARSHIP of $5,600, founded in 1889 by the Class of 1891.

RUBY FRANCES HOWE FARWELL MEMORIAL SCHOLARSHIP of $2,100, founded in 1926 by John W. Farwell, in memory of his wife.

ELIZABETH S. FISKE SCHOLARSHIP of $5,600, founded in 1904 by bequest of Miss Fiske.

JOSEPH N. FISKE MEMORIAL SCHOLARSHIP of $9,000, founded in 1892 by Mrs. Fiske.

RUFUS S. FROST SCHOLARSHIPS of $1,100, and $5,600, founded in 1880 by Mr. Frost.

HOWARD COGSWELL FURMAN SCHOLARSHIP of $5,000, founded in 1928 by Mrs. Eleanor Van Allen Furman.

MARY ELIZABETH GERE SCHOLARSHIP FUND of $5,600, founded in 1899 by Mary Elizabeth Gere.

GOODWIN SCHOLARSHIP of $5,600, founded in 1897 by Miss Hannah B. Goodwin, a former member of the Board of Trustees.

HELEN DAY GOULD SCHOLARSHIP of $11,200, founded in 1896 and increased in 1901 by Helen Miller Gould (Shepard) in memory of her mother.

HELEN DAY GOULD SCHOLARSHIP of $11,200, founded in 1899 and increased in 1901 by Helen Miller Gould (Shepard).

HELEN DAY GOULD SCHOLARSHIP of $11,200, founded in 1901 by Helen Miller Gould (Shepard).

M. ELIZABETH GRAY SCHOLARSHIPS of $11,200, founded in 1914 by bequest of William J. Gray.

GROVER SCHOLARSHIP of $5,600, founded in 1878 by William O. Grover.

CORA STICKNEY HARPER FUND of $2,200, founded in 1915 by bequest of Mrs. Harper of the class of 1880.

EMILY P. HIDDEN SCHOLARSHIP FUND of $2,200, founded in 1909 by bequest of Emily P. Hidden.

WINIFRED FRANCES HILL SCHOLARSHIP of $17,458, founded in 1928 by bequest of Ida Parker Hill.

SARAH J. HOLBROOK SCHOLARSHIP of $3,300, founded in 1898 by Sarah J. Holbrook.

SARAH J. HOUGHTON MEMORIAL SCHOLARSHIP of $6,700, founded in 1889, in memory of his wife, by William S. Houghton, a former member of the Board of Trustees.

Ada L. Howard Scholarship of $6,700, founded in 1895 in honor of Miss Howard, the first President of the College.

Sarah B. Hyde Scholarship of $2,200, founded in 1898 by bequest of Sarah B. Hyde.

Eliza C. Jewett Scholarship of $6,700, founded in 1894.

Sophie Jewett Memorial Scholarship of $1,100, founded in 1911 by Elsa D. James (Garvin) of the class of 1906 in memory of Sophie Jewett, instructor and associate professor of English Literature 1889-1909.

Mildred Keim Fund of $11,200, founded in 1912 by Newton and Frances S. Keim in memory of their daughter Mildred, until her junior year a member of the class of 1912.

Katharine Knapp Scholarship of $5,600, founded in 1920 by bequest of Katharine Knapp.

McDonald-Ellis Memorial of $1,000, founded in 1908 by former students of the McDonald-Ellis School of Washington, D. C., in memory of the late principals of the school, and increased by gift in 1926.

Anna S. Newman Memorial Scholarship of $1,100, founded in 1913 through gifts from former students.

Northfield Seminary Scholarship of $5,600, founded in 1878.

Anna Palen Scholarship of $11,200, founded in 1902.

Eleanor Pillsbury Memorial Scholarship Fund of $106,500, founded in 1926 by Mr. and Mrs. Cyrus H. K. Curtis, in memory of their daughter, Eleanor Pillsbury Pennell of the class of 1913.

Catherine Ayer Ransom Scholarship of $1,100, founded in 1908 by bequest of Mrs. Ransom.

Mae Rice Memorial Scholarship Fund of $1,100, founded in 1905 by the class of 1902, in memory of their classmate.

Rollins Scholarship of $9,000, founded in 1903 by Augusta and Hannah H. Rollins, in memory of their parents.

Helen J. Sanborn Alumnae Scholarship Fund of $11,200, founded in 1905 by Helen J. Sanborn of the class of 1884.

Oliver N., Mary C., and Mary Shannon Fund of $18,502, founded in 1916 by bequest of Mary Shannon.

Harriet F. Smith Scholarship Fund of $22,500, founded in 1881 by Henry Fowle Durant, in memory of his mother.

Stone Educational Fund of $28,100, founded in 1884 by Valeria G. Stone.

SWEATMAN SCHOLARSHIP of $5,600, founded in 1880 by V. Clement Sweatman.

JULIA BALL THAYER SCHOLARSHIP of $6,700, founded in 1907 by bequest of Mrs. Julia Ball Thayer.

JANE TOPLIFF MEMORIAL SCHOLARSHIP of $6,700, founded in 1883 by Mrs. William S. Houghton, in memory of her mother.

ANN MORTON TOWLE MEMORIAL SCHOLARSHIP of $5,600, founded in 1901 by bequest of George Francis Towle.

GEORGE WILLIAM TOWLE MEMORIAL SCHOLARSHIP FUND of $7,550 founded in 1901 by bequest of George Francis Towle, in memory of his father.

MARIE LOUISE TUCK SCHOLARSHIP FUND of $11,200, founded in 1919 by bequest of Miss Alice C. Tuck in memory of her sister of the class of 1883.

UNION CHURCH SCHOLARSHIP of $2,800, founded in 1880 by Mr. and Mrs. A. W. Stetson.

WESTON SCHOLARSHIP of $5,600, founded in 1878 by David M. Weston.

JEANNIE L. WHITE SCHOLARSHIP of $5,600, founded in 1886 by herself.

AMASA J. WHITING SCHOLARSHIP of $2,600, founded in 1928 by bequest of Mrs. May C. W. Speare in memory of her father.

ANNIE M. WOOD SCHOLARSHIP of $11,200, founded in 1880 by her husband, Frank Wood, and increased by his bequest in 1915.

CAROLINE A. WOOD SCHOLARSHIP of $5,600, the first scholarship of the college, founded in 1878 by Mrs. Caroline A. Wood in memory of her husband, Caleb Wood.

II. PRIZE FUNDS

The income of these funds is assigned for excellence in the subjects indicated.

BILLINGS PRIZE FUND (*Music*).

DAVENPORT PRIZE FUND (*Reading and Speaking*).

ISABELLE EASTMAN FISK PRIZE FUND (*Public Speaking or Debating*).

MARY G. HILLMAN MATHEMATICAL SCHOLARSHIP (*Mathematics*).

MARY WHITE PETERSON PRIZE FUND (*Botany, Chemistry, Zoology*).

STIMSON MATHEMATICAL SCHOLARSHIP (*Mathematics*).

ETHEL FOLGER WILLIAMS MEMORIAL FUND (*German*).

PERSONNEL BUREAU

The staff of the Personnel Bureau consists of a Director, a Consultant, a Faculty Associate, an Associate, an Appointment Secretary and an Assistant.

The Personnel Bureau is a central depository of the individual histories of the students as collected from the records of grades, from interviews, personality ratings from the faculty, mental tests, health reports and extra-curricular activities, with the aim of furnishing material of value in educational and vocational advising.

The Personnel Bureau, established by the founder as the Teachers' Registry, includes in its scope at present the placement of graduates not only in teaching, but also in business positions, and the work of the Committee on Vocational Information, which arranges lectures and discussions on occupations, for the purpose of giving the student an idea of the world of business and of the professions. Registration for placement is open to all who have taken courses in Wellesley College, and seniors are invited to register during their residence at the College. The Bureau keeps careful files, collects credentials, and is the source of information concerning the vocational equipment and experience of Wellesley women. The registration fee is $2.00, for life membership. The Bureau charges no commission on salaries. The Bureau also registers undergraduates and alumnæ for summer work, and has charge of undergraduate employment.

EQUIPMENT

Founders Hall, a building for lecture rooms and department offices pertaining to instruction in the Liberal Arts, was opened for use in September, 1919. The hall was built from the Restoration Fund, secured for the College through trustees, faculty, alumnæ, and other friends, and replaces in some part College Hall, the first and main building of the College, destroyed by fire, March 17, 1914. The building is dedicated as a memorial to the Founders of the College, Henry Fowle Durant and his wife, Pauline Adeline Durant.

Founders Hall is the first achieved member of a group of academic buildings designed by Messrs. Day and Klauder of Philadelphia and to be completed as soon as funds allow.

The Library of the College, endowed by Eben Norton Horsford, now numbers over 100,000 bound volumes, including the departmental libraries. The books in the General Library building form a collection chosen primarily for the use of students and instructors in the college courses in Literature and Languages, History, Economics, Sociology, Philosophy,

Education, Religious History and certain of the sciences. The General Library is open on week days from 8:10 A.M. to 9:30 P.M., and on Sundays from 2:30 to 5:30 P.M. Students have direct access to the shelves. The Library is catalogued by author and subject entries, and the most recent and useful bibliographical aids are provided; special effort is made to train students in methods of research.

The Library subscribes for about four hundred American and foreign periodicals, including daily newspapers representing different sections of the United States, besides representative British and Continental dailies.

The Library has also many special collections of great interest and value to the student doing graduate or other research work. Among the most valuable of these are the Plimpton Collection, established by Mr. George A. Plimpton in memory of his wife, Frances Pearsons Plimpton, of the class of 1884, which comprises 953 volumes of Italian books and manuscripts chiefly of the Renaissance; the Ruskin Collection, the gift of Mr. Charles E. Goodspeed; and the Collection of Early and Rare Editions of English Poetry given for the most part by Professor George Herbert Palmer.

The Brooks Memorial Room, opened in 1921, provides comfortable and beautiful surroundings with carefully selected books for leisure hours of reading.

The following departmental libraries are located in the buildings of the respective departments: Art, Astronomy, Botany, Chemistry, Hygiene and Music.

Farnsworth Art Museum and Art Collections.—The Farnsworth Art Museum, the gift of the late Isaac D. Farnsworth, was opened in September, 1889. Besides lecture rooms, galleries for collections, and studios for drawing and painting, a special feature is the arrangement of laboratories and libraries, so that the books and art material relating to particular subjects and periods can be made immediately available to students.

The Art Collection includes the Jarvis collection of laces and vestments; the M. Day Kimball Memorial, consisting of original pieces of antique sculpture; a few examples of early Italian painting, including an early Sienese painting, the gift of Mrs. William H. Hill; a collection of Indian baskets, the gift of Mrs. Rufus S. Frost; various Egyptian antiquities obtained through the kindness of the late Mrs. John C. Whitin, including certain interesting papyri; and scarabs and seals from the collection of Dr. Chauncey Murch, the gift of Mrs. Helen M. Gould Shepard; two Renaissance sculptured columns, the gift of Mr. William C. Safford; the Stetson collection of modern paintings, an interesting early Corot, an attributed Morland, and a few other examples. A movement has been started to develop the museum collections further, and to make the museum a center of beauty for the College.

Music Hall and Billings Hall are large brick buildings, devoted to the department of Music. Music Hall contains offices, studios, and practice-rooms equipped with thirty-seven new pianos of standard makes, two victrolas, a Duo-art and a player-piano; also a large room, containing a two-manual pipe organ for the use of the organ pupils. Billings Hall, opened in 1904, contains the office of the Professor of Music, the library and class rooms for instruction in Musical Theory; also a concert room, seating four hundred and ten people, containing an Ampico, a victrola, and the Grover organ,—a large three-manual organ, rebuilt and modernized by the Estey Organ Company.

The Music Library includes a collection of manuscripts, about three hundred scores (Symphony, Opera, Oratorio, and Cantata), two hundred songs, four hundred piano compositions and arrangements (two, four, and eight hands), besides one thousand reference books on musical subjects, and ten periodicals. The department owns about two hundred records for the victrola and four hundred and fifty records for the player-piano.

Laboratories and Scientific Collections

Astronomy.—The Whitin Observatory is a one-story building of brick, faced with white marble, situated on a small hill on the college grounds, and devoted entirely to the use of the department of Astronomy. It contains two rooms surmounted by rotating domes, twenty-five feet and twelve and one-half feet in diameter respectively; a transit room; a spectroscopic laboratory; a large, well-lighted room for elementary laboratory work; and another large room in which is kept the department library. In the larger dome room is mounted a twelve-inch Clark equatorial refracting telescope, which is provided with a filar micrometer, a polarizing photometer, and an attachment for photographing the moon. The smaller dome contains a six-inch Clark refractor which is provided with an electric driving clock, a filar micrometer, a wedge photometer, and an Evershed protuberance spectroscope, and which may be used as a guiding telescope for a small photographic camera. Both domes are rotated by electric motors. In the transit room is mounted a Bamberg prismatic transit of three inches aperture. A four-inch telescope with objective by Browning is mounted in a south wall of the building, with the eye end inside and the optic axis parallel to the axis of the Earth; a plane mirror beneath the object-glass reflects into the latter the light of the object observed. In the spectroscopic laboratory is a Rowland concave grating spectroscope of six feet focal length. The Observatory is supplied with two Howard sidereal clocks, a Bond mean-time chronometer, and two chronographs, any of which may be connected electrically through a switchboard with keys near the various telescopes; a Berger surveyor's transit;

a 60-mm. Zeiss tripod telescope; a Monroe calculating machine; a Gaertner comparator for measuring spectrograms; a projecting lantern and about 1200 astronomical lantern slides; and a large collection of illustrative apparatus and photographs. A flat portion of the roof of the neighboring Botany Building is fitted with illuminated desks for the use of astronomy students in naked-eye study of the sky.

Observatory House, the residence of the Director of the Observatory, is near by. Both the Observatory and the house, and also the greater part of the astronomical equipment, are the gift of the late Mrs. John C. Whitin.

Botany.—The department of Botany has a new building with laboratories, research rooms, offices, etc., fully equipped with all modern facilities. Connecting with the building at three points is a range of modern greenhouses consisting of fifteen small houses.

The illustrative collections comprise an herbarium of some sixty thousand sheets, a working museum of more than five thousand specimens, and a large collection of lantern slides and microscopic mounts. The department has an "Outdoor Laboratory" for the use of certain courses. The greenhouses contribute to all the courses in the department, but are of especial importance in connection with the work in landscape gardening, physiology, ecology, taxonomy and genetics. The native flora about Wellesley is easily accessible, furnishing a convenient field for both the taxonomist and ecologist. The Susan M. Hallowell Memorial Library is exceptionally well supplied with reference works and with current periodicals.

Chemistry.—The department of Chemistry occupies a separate building, which contains two lecture rooms and the chemical library, in addition to the rooms fitted up for laboratory work. Separate laboratories are provided for work in general chemistry, organic chemistry, qualitative and quantitative analysis, and food analysis. The building is conveniently arranged and well equipped with necessary apparatus and appliances.

Geology and Geography.—The department of Geology and Geography has a large and well-equipped lecture hall provided with a Leitz epidiascope for lantern slide and opaque projection, a good sized class room, and two laboratories, one for the use of geography classes, the other for work in geology.

The Geology Museum contains a typical college collection of dynamical, structural, and historical geology specimens,—a systematic collection of minerals arranged according to Dana, and a systematic collection of rocks. There are three collections arranged for classroom use,—one each in mineralogy, petrology and structural and historical geology. These collections are all the generous gifts of colleges, museums, and friends. The depart-

ment has two noteworthy collections. The first is the Horace I. Johnson Mineral Collection, which consists of five thousand valuable and beautiful mineral specimens, including many precious metals and stones. This collection is the gift of the late Mr. John Merton, and was presented through the Class of 1915 by the courtesy of Miss M. Helen Merton. The second is the Reverend David F. Pierce Collection, which includes a complete and rare collection of building and ornamental stones and many precious and semi-precious minerals. This collection is the gift of Professor Frederick E. Pierce of Yale, Miss Anna H. Pierce, and Miss Mary E. Pierce of the Class of 1898. The maps of the department include wall maps of different countries and sections of countries; all the United States Geologic Folios, sixty United States Coast and Geodetic Survey maps, and ten thousand topographic maps of the United States Geologic Survey. Five thousand of these latter maps are arranged in groups to illustrate physiographic types. The department has four thousand lantern slides which illustrate all phases of geology and geography.

Hygiene and Physical Education.—The Department of Hygiene and Physical Education occupies Mary Hemenway Hall on the western border of the college grounds. The equipment of the department is designed for the application of modern science to the maintenance and promotion of health and for education through motor activity.

Mary Hemenway Hall includes a large well-lighted gymnasium with ample bathing facilities, administrative offices, class rooms, and laboratories for anatomy, physiology, hygiene, anthropometry, corrective exercise and research.

Unusual facilities for outdoor activities are provided as follows: one four-target archery range, two volley ball, four basket ball, and twenty-two tennis courts; one baseball diamond, two hockey and lacrosse fields, one 100-yard straight-away track and jumping pits; and a nine-hole golf course. Bridle paths are available for horseback riding. Close by, on Lake Waban, are two boathouses, with canoes, eight-oared shells, and motor boat for coaching and safety patrol. The Lake provides opportunity for swimming in the spring and fall terms, and for skating in the winter. The campus is well adapted to skiing, snowshoeing, and coasting.

The department library in Mary Hemenway Hall contains 3,300 volumes, a collection of valuable pamphlets, and regularly receives 40 journals dealing with matters related to hygiene and physical education.

Mathematics.—The department has a collection of 45 Brill-Schilling models of surfaces, chiefly of the second and third orders, beside several simple models, including some made by its members. There is a fine transit for the use of classes in Trigonometry, and an adding machine, used in the classes in Statistics.

Physics.—The department of physics occupies as temporary quarters two floors in an old building. There are two lecture rooms, fitted with direct and alternating current and gas, and laboratories for general physics, electricity, heat and light. The equipment is thoroughly modern. The lecture apparatus is sufficient to permit a wide range of experimental lectures. In the elementary laboratory, duplication of apparatus permits a close co-ordination between lectures and laboratory exercises. The equipment for advanced laboratory work is especially strong in electrical and optical apparatus. It includes an unusual equipment for experiments in electromagnetic waves and radio communication; a Hilger quartz spectrograph and constant deviation spectrometer; a Weiss electromagnet, etc.

There is connected with the laboratory a machine shop in charge of a mechanician who makes and repairs apparatus as needed.

Psychology.—The laboratory is housed in a building which is located in a quiet spot and which contains fourteen rooms with good electrical connections. Two dark rooms and a workshop are included. The equipment is adequate for demonstration, for general experimental work, and for many lines of research.

Zoology.—The department of Zoology is housed in a temporary building. This building contains laboratories for the elementary course in zoology, for histology and embryology and for physiology. The courses in anatomy are conducted in the laboratories in Mary Hemenway Hall. The equipment lost in the fire of March, 1914, is being replaced as rapidly as conditions permit. The fundamental needs of the various courses have been met, and the physiology laboratory in the new wing is fully equipped with modern apparatus. The nucleus of a new museum has been formed, and additions are being made as fast as funds and the lack of adequate fire-proof space allow. A collection of New England birds, and a valuable collection of shells, the gift of Mrs. Rebecca S. Beaman, of Cambridge, are housed in a basement room of the Library.

FORMS OF BEQUEST

I give and bequeath to Wellesley College, a corporation established by law, in the Town of Wellesley, county of Norfolk, and Commonwealth of Massachusetts, the sum of————dollars, to be safely invested by it and called the————Endowment Fund. The interest shall be applied to the payment of the salaries of teachers in Wellesley College, as the Trustees shall deem expedient.

I give and bequeath to Wellesley College, a corporation established by law, in the Town of Wellesley, county of Norfolk, and Commonwealth of Massachusetts, the sum of————dollars, to be appropriated by the Trustees for the benefit of the College in such manner as they shall think will be most useful.

I give and bequeath to Wellesley College, a corporation established by law, in the Town of Wellesley, county of Norfolk, and Commonwealth of Massachusetts, the sum of————dollars, to be safely invested by it, and called the————Scholarship Fund. The interest of this fund shall be applied to the aid of deserving students in Wellesley College.

DEGREES CONFERRED IN 1929

MASTER OF ARTS

Helena Maria Bilinska (B.A., Wellesley College, 1928), *English Literature.*
Eloise Evelyn Buck (B.A., University of Oregon, 1926), *English Literature.*
Dorothy Montgomery Dodd (B.A., Wellesley College, 1926), *Physics.*
Marion Collins (B.A., Mount Holyoke College, 1927), *Zoology.*
Winifred Elizabeth Fletcher (B.A., Wellesley College, 1926), *Chemistry.*
Mary Dayton Graff (B.A., Wellesley College, 1927), *Spanish.*
Helen Maude Mitchell (B.A., Vassar College, 1925), *Astronomy.*
Elizabeth Helen Parsons (B.A., Oberlin College, 1927), *Zoology.*
Jean Hamilton Philp (B.A., Mount Allison University, 1926), *Chemistry.*
Louise Dobson Price (B.A., Wellesley College, 1923), *Chemistry.*
Janet Robinson (B.A., Wellesley College, 1925), *Zoology.*
Mary Louise Scranton (B.A., Mount Union College, 1926), *English Literature.*

MASTER OF SCIENCE IN HYGIENE AND PHYSICAL EDUCATION

Loraine Hulburd Frost (B.A., Elmira College, 1927).
Virginia Maple Kling (B.A., Miami University, 1927).
Katharine Norris Maple (B.A., Pomona College, 1927).

BACHELOR OF ARTS

Matilda Aarons
Alice Ludlow Abbott
Dorcas Abbott
Katherine Abbott
Eleanor Adams
Kathryn Emily Douglas Albin
Elizabeth Alden
Gertrude Terrell Aldredge
Dorothy Sylvia Alexander
Ruth Agnes Alexander
Lydia Louise Allen
Elinor Hamilton Anderson
Isabel Slote Angus
Marion Babette Appel
Gretel Arndt
Barbara Arthur
Claire Auger
Dorothy Auten
Dorothy Marion Austin
Annette Louise Bacon
Geraldine Badenoch
Esther Marie Baker
Edith Elsie Ballard
Ruth James Baltzell
Lelia Agry Bancroft
Frances Woodford Bankson
Persis Bannon
Florence Evelyn Barley
Florence Gershel Barthman
Elizabeth Bartlett
Frances Frost Bean
Loraine Close Beckerman
Josephine Wakeman Beers
Ruth Helen Beers
Eleanor Bender
Alice Ross Bennett
Helen Douglas Benton
Leah Rose Bernstein
Alice Frances Bible
Margaret Cordelia Bird
Mary Allen Blackford
Anna Carter Boatner
Mary Daggett Booth
Erna Bottigheimer
Elizabeth Marie Bouillon
Bernice Augusta Boulee
Barbara Bourne
Mary Elizabeth Brady
Mary Herman Bressler
Helena Antonia Brockelman
Gertrude Miriam Brody
Marcia Louise Bruch
Ruth Seaman Brush
Frances Warfield Bryant
Elizabeth Budish
Elizabeth Rogers Burdick
Vivian Marie Camisa
Vivienne Mercedes Camps
Mary Elizabeth Cannon
Harriet Hammond Carlton
Margaret Eleanor Cashman
Louise Climena Casselman
Katherine Virginia Cast
Elizabeth Bradford Chamberlin
Margaret Wentworth Chamberlin
Florence Baker Chew
Jane Louise Chidsey
Dorothy Almy Clark
Dorothy Kneeland Clark
Ruth Anna Clark

FLORENCE ELIZABETH CLAYTON
ELIZABETH JANE COFER
KATHERINE ROSENWASSER COHN
ELSIE COLLIER
ADELAIDE SOMES COLWELL
MARY ELIZABETH CONKLING
MARY CONNALLY
EUNICE COOKE
RUTH STARBUCK COOPER
EMILY LEFFERTS CORNELL
MARY FRANCIS COYNE
HARRIET BALDWIN CREIGHTON
MARTHA BELLE CROSBY
HELEN CURTIS
MARGARET VAN DAELL
DOROTHY ELIZABETH DAVIS
SARA TOD DELANEY
HARRIET GILLHAM DELICATE
ALICE DENNETT
ESTHER DICKERMAN
MARGARET ANNE DOCKERY
DOROTHY EVELYN DONHAM
BARBARA DONNELL
ELEANOR HARPUR DOOGUE
BLANCHE FRIEDA DOUTY
HORTENSE COUSE DUTCHER
GENEVIEVE LYDIAN DUTTON
KATHARINE EASTMAN
DOROTHY PAINE EATON
SUSAN EVELYN ECHOLS
MARIE MCLEAN ECKHARDT
BERYL EDGECOMBE
ELISABETH IRENE ELLIS
ROSE ENGLAND
BARBARA EVERETT
KATHERINE ELLEN FALCONER
GRACE FEAREY
HELEN CATHERINE FINK
NANCY HOWLAND FISK
DOROTHY FLINT
MARY GRACE FOSNOT
JOSEPHINE CLARE FOSTER
MARIE FOULKROD
HELEN MARGARET FRANC
LYDIA ANN FRANCIS
HARRIET FREIBERG
MARGARET FRYE
SELMA FULD
ALICE AUGUSTA GATES
JANET BAKER GEDDES
EDNA MAY GIFFORD
MARY AGNES GILMORE
EMILY MADELINE GOEHST
JEAN GOFF
FLORENCE ELEANOR GOLDMAN
THELMA GORFINKLE
ELAINE STANDISH GORHAM
VIRGINIA GOULD
OLIVE GRABILL
PHYLLIS GRAVER
ELEANOR BURRILL GREEN
ETHEL GRIMMER
ELISABETH CARTER GUEST
NANNETTE SUZANNE GUTMAN
ELIZABETH JACKSON HAINES
MARTHA ALTHEA HALL
HELENE ELIZABETH HAM
MARGARET LUCILLE HAMILTON
MARGARET TUFTS HAMLIN
IMOGENE WATSON HARRIS
JEAN HELEN HARRIS
ELISABETH MORTON HARRISON
HELEN SHAW HARROLD
HELEN CYNTHIA HARSH
MILDRED HARTSHORN
DOROTHY MAE HASKINS
RUTH KNEISS HASTINGS
DOROTHY HAYDEN
JEAN ELIZABETH HAYS
RACHEL DEANE HAYWARD
MURIEL LUCILLE HELLER
ANTOINETTE HENDERSON
MARY SEARS HENNING
JEAN HENNINGER
LOUISE INSLEE HERRICK
CAROL BABETTE HESS
ELLEN HUNTER HEYDT
MARY ANGELA HIGGINS
JANET SARA HIRSHBERG
MABELLE CAROLINE HISCOCK
EDITH JOYCE HOFFMAN
JEANNE JOSEPHINE HOFFMAN
ROXANA HOLDEN
ALICE EUGENIE HOLINGER
RUTH CLASON HOLMES
RUTH HELENE HOLT
BARBARA HOPKINS
MARY ELIZABETH HORMELL
ELEANOR HOYT
KATHARINE ESTHER HUBBARD
LESLIE MESTREZAT HUDSON
FRANCES HUNTINGTON
BETHEVA RUTH JAMES
ELINOR TOWLE JARVIS
DOROTHY FRANCES JOHNSON
THEODATE JOHNSON
DOROTHY HICKOK JOHNSTON
JEANNETTE VIRGINIA JONES
LOUISE JORDAN
NATALIA MERCEDES JOVA
ELIZABETH CURTIS KEEBE
EDITH KHOURY
ELEANOR COPELAND KIMBALL
JEAN MATILDA KING
FRANCES JOSEPHINE KINGSLEY
DORIS LOUISE KIRK
ESTHER LOUISE KIRKBRIDE
HELEN KLEIN
ELIZABETH JULIA KNUDSON
MIRIAM ELSBETH KOEHLER
MARGARET LOUISE KROLIK
LILLIAN KRUGER
DOROTHY ALBERTA KURTZ
MARGARET DOUGLAS LAFFERTY
MARY ELIZABETH LAKE
ELIZABETH LEE LATIMER
ANNETTE LEHMAN
DOROTHY FRANCES LEVY
EDNA ANITA LINDEMANN
MILDRED EDNA LISTER
KATHARINE IRENE LOBDELL
ELLEN JANE LORENZ
HELEN DEARBORN LYMAN
CONSTANCE FRANCES MACCARTHY
HELEN MACCLOSKEY
ELIZABETH UNGER MCCRACKEN

ELIZABETH HALL MCCULLOUGH
MARGARET MCDIARMID
MIRIAM FAIRBROTHER MACDONALD
ANNIE LAWTON MCINTOSH
DOROTHY MACMILLAN
MARION STONE MCNEISH
ELIZABETH HILDEBRECHT MAGOWAN
ROSE LANG MAKRAUER
JULIA MARSH
MARY LIVINGSTON MARSHALL
CAROL MARTIN
JOY MASTERS
JESSICA MATLOCK
JANET SUSIE MATTHEWS
FLORENCE JANE MAXWELL
ISABEL ELOISE MAY
THEODORA HOE MEAD
HELEN MEERHOFF
ADELAIDE BURPEE MELENDY
JOSEPHINE LUCINDA MERRIAM
MARGARET HOPKINS MERRILL
ALENE WILHELMINA MEYER
ANNE MEYER
LUISE HAAS MEYER
DOROTHY SMITH MILLER
MARGARET LOUISE MILLER
BEATRICE MITCHELL
ELEANOR MOISE
JULIE TUITE MONAHAN
MARY ELIZABETH MOORE
DOROTHY LOUISE MORGAN
MARIAN JEWETT MORSE
SUZANNE MORSE
EDNA LORRAINE MOSES
EMILY ELIZABETH MOSS
RUTH FOSTER MULLEN
ELIZABETH BRUCE NAMACK
ELISABETH NASH
LOUISE EVERETT-DEARING NEILL
ESTHER ESTELLE NEUBRAND
IVY NEWMAN
ELSIE DOROTHY NICHOLSON
ADELAIDE NOBLE
ALICE EMILY NORTON
PATRICIA ELINOR O'GORMAN
VIRGINIA ONDERDONK
GRACE WALLACE PALMER
EDITH CATHERINE PARKER
ANNIE ELIZABETH PARKS
JESSICA LYON PATTON
RUTH DEWITT PEARL
BARBARA STUART PEASE
JEAN PARMELEE PINDAR
ELENORE GERALDINE PINKHURST
ROSINA DU PONT
HELEN READ POST
GRACE POWELL
MARY ADELINE POWERS
MARTHA LOUISE PRATT
SARA LOUISE PRICE
DORIS JOHNSON RAINE
ELIZABETH RAGNA RATH
MARY MARGARET REDDAN
EMMA EMELIA REUSS
SARA JEANETTE REYNOLDS
ELIZABETH PUTNAM RICHARDS
MARTHA RICHARDSON
MARY RICHMOND
LOIS-LONG RIKER
HELENE ESTHER ROBINSON
MARY CLEMENTINE ROBINSON
ROSALIND WALKER ROBINSON
GWENDOLYN GOULD ROCKAFELLOW
EMILY NASH ROCKWOOD
MARY ANNE ROGERS
BARBARA ROLLINS
JEANNETTE ROMAN
MARGARET ROOS
EVELYN DOROTHY ROSENBLUTH
JANET ROSENWALD
BESSIE ALFRIEDA ROWLEY
CELIA ASENATH RUSSELL
MARGARET MAY RUSSELL
VIRGINIA BLAND RYNEHART
CHARLOTTE SALZER
MARY-TODD SAWHILL
ESTELLE MILDRED SCHARFELD
LOUISE MAE SCHWARZSCHILD
HELEN JOSEPHINE SCOTT
JEANETTE ELIZABETH SCOTT
VIRGINIA RANKIN SEDMAN
KATHERINE NEWTON SERRELL
ELIZA THRUSTON SEVERSON
GERTRUDE MARGUERITA SEYMOUR
DOROTHY BERYL SHAPIRO
VIRGINIA SHEDD
LI-YING SHEN
SUSAN MCMILLAN SHEPHERD
MILDRED CAROLYN SHINEMAN
DOROTHY FRANCES SHUGG
ELIZABETH TOWNSEND SHURMER
CONSTANCE COATES SMITH
EDITH SMITH
MARY ALICE SMITH
THELMA SUZETTE SMYTH
JANET LEWIS SNOW
MARY ELIZA SOUDER
MARY EUNICE SPROAT
MARGARET LOUISE STACEY
MARY AUGUSTA STANTON
JOSEPHINE STAUFFER
MARCIA LAMBERTON STEVENS
MARGARET LOIS STEVENS
KATHRYN STILLMAN
ELIZABETH MARIAN STONE
ELIZABETH WOOD STORER
BLANCHE ELEANOR STREET
PORTIA PLACIE STROBACH
EMILY ELIOT STURGIS
RUTH-ADELINE TAPLIN
ESTELLE BULKLEY TAYLOR
FERRELL TAYLOR
FRANCES CHARLOTTE THIELBAR
MARGARET THUM
ALICE CORENE TIFFANY
HELEN MARIE TOMEC
EMMA JULIA TOWNSEND
JEAN CAROL TREPP
BETTY BRUCE VAN ANTWERP
EDITH PARROTT VAN ORDEN
PRUDENCE MELVINA VEATCH
DOROTHY JANE VYE
HELEN CATHERINE WAGNER
MILDRED WALDRON
ELIZABETH NANCY WALKER
ASTRID LYNETTE WALLOE

DOROTHEA HOWSON WAPLES
ALICE ELIZABETH WARD
MARGARET MOODY WARD
ELEANOR ALLYN WEBB
CLARICE JANETTE WEEDEN
CAROLYN HOLLINGSWORTH WELLS
LUISITA WEMPLE
ELEANOR KNOX WHEELER
MARY MCDOUGALL WHEELER
ZELLA TRELAWNEY SAFFORD WHEELER
HELEN LOUISE WHIDDEN
GLADYS ELAINE WHITE
RUTH WHITTREDGE
ANNE BELLE SEVERANCE WICKHAM
KATHRYN ELIZABETH WIEHE
HARRIET LOUISE WILDEY
RUTH DAVIS WILLIAMS
HELEN ALMY WINSLOW
DOROTHY WISHART
HELENE CHARLOTTE WOLTERS
HARRIET WOOD
HILDA MACCREARY WRIGHT
LUCY LEE WRIGHT
MARY FRANCES WYMAN
ROSEMARY WYMAN

CERTIFICATE OF THE DEPARTMENT OF HYGIENE AND PHYSICAL EDUCATION

ERNESTINE BUNNELL,
B.S., Elmira College
VIRGINIA MAPLE KLING,
B.A., Miami University
KATHARINE NORRIS MAPLE,
B.A., Pomona College
FLORENCE EDYTHE PARMLEY,
B.A., Bucknell University
ANNE FAIRFAX PORTER,
B.A., Wellesley College
ANNE VIRGINIA PUGH,
B.A., Wellesley College
PRUDENCE WRIGHT WALLIS,
B.A., Wellesley College
EDITH BAKER WILLIAMS,
B.S., Elmira College

HONORS IN SUBJECTS

KATHRYN EMILY DOUGLAS ALBIN

Methods and Technique in Painting in the Fourteenth and Fifteenth Centuries in Italy

HELENA ANTONIA BROCKELMAN

Studies in Prose Narrative Writing of Different Historical Periods

LOUISE CLIMENA CASSELMAN

A Study of Certain Alternating Current Phenomena by Means of the Cathode Ray Oscillograph

EUNICE COOKE

A Study of X-Ray Analysis of Crystal Structure with Special Emphasis on the Bragg Reflection Method

HELEN MARGARET FRANC

Pre-Vulgate Old Testament Iconography in Rome

HELENE ELIZABETH HAM

Rediscount Policy

BETHEVA RUTH JAMES

The Influence of the Fabians on British Legislation

HELEN KLEIN

Measurements of the Power Factor of Certain Glass Condensers at High Frequencies

ANNETTE LEHMAN

Asiatic Iconography of the Old Testament Prior to the Ninth Century A. D.

ELLEN JANE LORENZ

The String Quartets of Beethoven

BARBARA STUART PEASE

Determination of the Orbits of Comets and Spectroscopic Binaries

JEANNETTE ROMAN

The Relation between Storm and Stress, Classical and Romantic Literary Art as Evidenced in their Respective Attitudes toward Shakespeare

JEAN CAROL TREPP

Trade-Union Interest in Production

MARGARET MOODY WARD

Some Aspects of the Pastoral in Latin, French, and English Literature

ROSEMARY WYMAN

A Genetic Study of Children's Paintings and a Consideration of the Work of Sur-realistes

THE BILLINGS PRIZE

For conspicuous excellence in theoretical and practical music
ELLEN JANE LORENZ

DAVENPORT PRIZE

For excellence in reading and speaking
MILDRED EDNA LISTER

THE ERASMUS HISTORY PRIZE

ASTRID LYNETTE WALLOE
Subject: Erasmus and the Spirit of Rationalism

JOHN MASEFIELD PRIZE

For excellence in prose writing
MARY RICHMOND

THE MARY WHITE PETERSON PRIZES

For excellence in Chemistry
EUNICE COOKE

For excellence in Zoölogy
MATILDA AARONS

STIMSON PRIZE IN MATHEMATICS

ESTHER LOUISE KIRKBRIDE

THE WOODROW WILSON PRIZE IN MODERN POLITICS

BETHEVA RUTH JAMES
Subject: The Influence of the Fabian Society on Social and Industrial Legislation, 1880-1914

GRADUATE SCHOLARSHIPS AWARDED TO MEMBERS OF THE SENIOR CLASS

LOUISE CLIMENA CASSELMAN

JEAN CAROL TREPP

HORTON-HALLOWELL FELLOWSHIP

(No award for the year 1928-29; hence two for the year 1929-30)

Awarded for the year 1929-30 to RUTH ELIZABETH HILLYAR, B.A., Wellesley College, 1922; M.A., University of California, 1924; graduate student at Yale University, 1928-29.

Subject: Dante Gabriel Rossetti

Awarded for the year 1929-30 to DOROTHY WALCOTT WEEKS, B.A., Wellesley College, 1916; M.S., Massachusetts Institute of Technology, 1923; M.S., Simmons College, 1925; graduate student at the Massachusetts Institute of Technology, 1928-29.

Subject: Quantum Mechanics and Optics

ALICE FREEMAN PALMER FELLOWSHIP

Awarded for the year 1929-30 to DEBORAH MAY HICKEY, B.A., 1926, M.A., 1927, Rice Institute; candidate for the degree of Ph.D., Rice Institute, June, 1929. Subject: Mathematics

FANNY BULLOCK WORKMAN SCHOLARSHIP

Awarded for the year 1929-30 to MARGARET ELIZABETH DAVIDSON, B.A., Goucher College, 1925; M.A., Wellesley College, 1928; student at Cornell University, 1928-29. Subject: Psychology

HONOR SCHOLARSHIPS

Honor Scholarships (without stipend) have been established by the College for the purpose of giving recognition to a high degree of excellence in academic work. These honors fall into two classes: students in the first, or higher class, are termed Durant Scholars; students in the second class are termed Wellesley College Scholars.

These honors are awarded to seniors on the basis of two and one-half years' work, to juniors on the basis of one and one-half years' work. The standard in each case is absolute, not competitive.

DURANT SCHOLARS

Appointed in 1929

Matilda Aarons, '29
Harriette Louise Bailey, '30
Florence Evelyn Barley, '29
Helen Adaline Boose, '30
Mary Herman Bressler, '29
Stella Frances Brewster, '29
Louise Climena Casselman, '29
Florence Elizabeth Clayton, '29
Eunice Cooke, '29
Ruth Currier, '30
Kathryn Gilbert Dapp, '30
Mary Alice Davison, '30
Susan Evelyn Echols, '29
Nancy Howland Fisk, '29
Sophia Helen Fisk, '30
Helen Margaret Franc, '29
Florence Eleanor Goldman, '29
Elizabeth Jackson Haines, '29
Helene Elizabeth Ham, '29
Dorothy Hickok Johnston, '29
Helen Klein, '29
Lillian Kruger, '29
Annette Lehman, '29
Ellen Jane Lorenz, '29
Rose Lang Makrauer, '29
Evelyn Margaret Meyer, '30
Frances Schouler Miller, '30
Virginia Onderdonk, '29
Helen Read Post, '29
Estelle Mildred Scharfeld, '29
Alice Sword, '30
Jean Carol Trepp, '29
Elinor Ulman, '30
Alice Jane Vactor, '30
Helen Louise Walker, '30
Astrid Lynette Walloe, '29
Rosemary Wyman, '29

WELLESLEY COLLEGE SCHOLARS

Appointed in 1929

Katherine Abbott, '29
Agnes Eleanor Addison, '30
Ruth Lowe Ainscough, '30
Kathryn Emily Douglas Albin, '29
Dorothy Sylvia Alexander, '29
Ruth Agnes Alexander, '29
Regina Blanche Anderson, '30
Barbara Arthur, '29
Claire Auger, '29
Elizabeth Bachman, '30
Marian Louise Bass, '30
Ruth Helen Beers, '29
Alice Ross Bennett, '29
Barbara Bourne, '29
Elizabeth Anne Bradstreet, '30
Elsie Mary Bridges, '30
Gertrude Miriam Brody, '29
Elizabeth Budish, '29
Marian Van Alstyne Butts, '30
Vivian Marie Camisa, '29
Evaline Chalfant, '30
Jane Louise Chidsey, '29
Margaret Antoinette Clapp, '30
Katherine Rosenwasser Cohn, '29
Elsie Collier, '29
Eunice Allen Collins, '30
Ruth Starbuck Cooper, '29
Thankful Holmes Cornwall, '30
Dorothy Elizabeth Davis, '29
Katharine Eastman, '29
Marie McLean Eckhardt, '29
Frances Adele Frank, '30
Marion Lois Fuller, '30
Edna May Gifford, '29
Thelma Gorfinkle, '29
Elaine Standish Gorham, '29
Elizabeth Scott Hansen, '30
Dorothy Hayden, '29
Janet Sara Hirshberg, '29
Julia Lilly House, '30
Leslie Mestrezat Hudson, '29
Betheva Ruth James, '29
Dorothy Frances Johnson, '29
Lucille Margaret Keating, '30

ANNA MELVILLE KER, '30
EDITH KHOURY, '29
ESTHER LOUISE KIRKBRIDE, '29
ELIZABETH LINCOLN KNIGHT, '30
MARGARET LOUISE KROLIK, '29
ELOISE WENTWORTH LANE, '30
EDNA ANITA LINDEMANN, '29
HELEN DEARBORN LYMAN, '29
ELIZABETH UNGER MCCRACKEN, '29
JANET ALEXANDER MACPHERSON, '30
BEATRICE SARA MADSEN, '30
ELINOR COLBY MAHONEY, '30
FLORENCE JANE MAXWELL, '29
ALENE WILHELMINE MEYER, '29
ALICE GWENDOLYN MONTGOMERY, '30
PATRICIA ELINOR O'GORMAN, '29
ELEANOR MARKHAM PAGE, '30
EDITH CATHERINE PARKER, '29
NELLIE LEE PEARCE, '30
RUTH DEWITT PEARL, '29
BARBARA STUART PEASE, '29
EDITH LOUISE PIERCE, '30
EMILY RUTH PRICE, '30
MAY ELIZABETH READ, '30
ELIZABETH MARGARET RENIFF, '30
EMMIE EMELIA REUSS, '29
ELIZABETH PUTNAM RICHARDS, '29
MARY RICHMOND, '29
JEANNETTE ROMAN, '29
GRACE LOUISE ROSE, '30
JANET ROSENWALD, '29
AILEEN TEMPLETON SHAW, '30
DOROTHY LUCILE SHUMAN, '30
KATHERINE MAY SINGER, '30
CONSTANCE COATES SMITH, '29
MARJORIE HELEN SMITH, '30
JANET LEWIS SNOW, '29
MARGARET LOUISE STACEY, '29
SARAH WINNIFRED STARKS, '30
RUTH PIERPONT STEPHENS, '30
ELIZABETH WOOD STORER, '29
BLANCHE ELEANOR STREET, '29
MARION THOMPSON, '30
MARGARET THUM, '29
HELEN MARIE TOMEC, '29
MARY NEWTON TORREY, '30
MARIE PERRY TOWNSEND, '30
HELEN CATHERINE WAGNER, '29
MILDRED WALDRON, '29
MARGARET MOODY WARD, '29
ELEANOR KNOX WHEELER, '29
MARY MCDOUGALL WHEELER, '29
ZELLA TRELAWNEY SAFFORD WHEELER, '29
ELEANOR JEAN WILLSON, '30

SUMMARY OF STUDENTS

Resident candidates for the M.A. degree		43
Resident candidates for the M.S degree in H. & P. E.		15
Resident candidates for the Certificate in H. & P. E.		24
Candidates for the B.A. degree:—		
Seniors	331	
Juniors	312	
Sophomores	372	
Freshmen	436	
Unclassified	34	
		1,485
Non-candidates for degrees		7
		1,574
Duplicates		11
Total registration November, 1929		1,563

United States:—			
Alabama	8	North Carolina	3
Arkansas	3	Ohio	93
California	18	Oklahoma	5
Colorado	4	Oregon	6
Connecticut	92	Pennsylvania	148
Delaware	4	Rhode Island	17
District of Columbia	21	South Carolina	2
Florida	7	South Dakota	1
Georgia	7	Tennessee	6
Idaho	3	Texas	17
Illinois	70	Utah	3
Indiana	24	Vermont	3
Iowa	2	Virginia	5
Kansas	8	Washington	2
Kentucky	9	West Virginia	8
Louisiana	1	Wisconsin	17
Maine	21	Hawaii	1
Maryland	24	Porto Rico	1
Massachusetts	278		
Michigan	22	Other Countries:—	
Minnesota	11	Albania	1
Mississippi	1	Canada	6
Missouri	25	China	6
Montana	1	England	1
Nebraska	3	Germany	2
New Hampshire	17	Italy	1
New Jersey	118	Japan	3
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